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TITLE**DETERMINING CANCER-LINKED GENES AND THERAPEUTIC TARGETS USING MOLECULAR CYTOGENETIC METHODS****CORRESPONDENCE ADDRESS**

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33,389☐ Additional inventors are being named on separately numbered sheets attached hereto**USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT**

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DETERMINING CANCER-LINKED GENES AND THERAPEUTIC TARGETS USING MOLECULAR CYTOGENETIC METHODS

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FIELD OF THE INVENTION

The present invention relates to Identification of amplifications / gains of genomic segments of DNA within human chromosomes in diseased states, such as cancer, that are demarcated and limited within specific chromosomal bands and defined herein as "amplicons" and whose disruption and/or change in expression is useful to distinguish cancerous from non-cancerous tissue and serve as potential therapeutic targets, pharmacodynamic /pharmacogenetic/surrogate and prognostic and diagnostic markers.

20

BACKGROUND OF THE INVENTION

25 Malignant tumors are a leading cause of death in the United States and one in four Americans is likely to die of cancer. This disease is often characterized by an increase in the number of abnormal, neoplastic cells that are ultimately derived from a normal tissue after which the cells proliferate to form a tumor, which can then metastasize (spreading into adjacent tissues or traveling
30 elsewhere in the body via the bloodstream or lymphatic system).

The genomes of various well-studied tumors carry several different independently altered genes, including activated oncogenes and inactivated tumor suppressor genes. Chromosomal abnormalities have been identified in

most cancer cells. Conventional chromosome banding techniques allow for the detection of specific chromosomal defects in tumor cells but interpretation of the banding pattern is sometimes difficult, particularly when complex chromosomal rearrangements or subtle abnormalities are present. In recent years, new techniques, such as CGH and SKY, based on fluorescent *in situ* hybridization (FISH) (Pinkel et al., Proc Nat Acad Sci USA 85:9138-42 (1988)) have been developed to overcome the limitations of conventional chromosome banding. CGH measures intensities of fluorescently labeled tumor DNA and normal DNA following hybridization to normal chromosomes (Kallioniemi et al., Science 258:818-21 (1992)). Gain or loss of copy number of a particular chromosome or chromosome region in the tumor DNA is determined by the relative intensity of a fluorescence ratio. SKY utilizes a cocktail of chromosome probes, fluorescently labeled to specify each chromosome, which is hybridized to tumor chromosomes in an effort to identify numerical and structural abnormalities in the tumor cell (Schröck et al., Science 273:494-7 (1996)). CGH and SKY have been used to identify chromosomal regions that harbor genes significant to the process of tumor initiation or progression.

The identification of amplifications of genomic DNA within well defined and demarcated limits on human chromosomes is done at a resolution of human chromosome banding limited to 400-550 bands by the technique of Comparative Genomic Hybridization (CGH). The present invention applies custom protocols to obtain human template chromosomes that are resolved to 850 to 1000 band resolution of human chromosomes (ISCN, 1985), to perform CGH on a large number of cell lines/ tissue samples/tumor cells. This allows the identification of regions of genomic DNA amplifications ranging from 2-5 Mbp at the highest limits of resolution of human chromosomes, detected by fluorescent intensity evaluations performed at the microscope. Amplicons, or regions of interest,, from 10-20 Mb and more are also defined by these methods. These amplicons contain a gene, or genes, that are amplified (meaning copy number gains), and/or differentially expressed in the tissue/ cells of origin. Genes identified as being

amplified and/or over-expressed provide targets for intervention with a small molecular therapeutic, antibodies, anti-sense or other therapeutic modalities. A gene or genes within these regions could also be used for diagnostic or prognostic molecular pathology characterization and useful as pharmacodynamic biomarkers for drug response profiling and patient sub-set selection and stratification.

BRIEF SUMMARY OF THE INVENTION

In one aspect the present invention relates to a set of genes that have been localized within human chromosomal regions of interest (ROI) that have been identified by molecular cytogenetic techniques. In particular, the present invention relates to chromosomal regions of interest, or amplicons, that are summarized in Table 1 and containing genes with cDNA sequences shown in Figure 1.

In another aspect, the present invention relates to a method for diagnosing the presence of a cancerous condition, or diagnosing a predisposition to developing a cancerous condition, in an animal, especially a human being, by determining the amplification and/or over-expression, of one or more genes as identified in Figure 1 in a cell, or tissue sample, obtained from an animal. The animal may be afflicted with, or at risk of developing, such a cancerous condition, or otherwise predisposed to develop such a condition.

In a further aspect, the present invention relates to a method for the treatment of a cancerous condition, especially one involving breast, colon, lung, cervix, kidney, pancreas and prostate tissues, utilizing selected chemical agents having anti-tumor activity as identified using one of the assays disclosed herein.

Thus, in one aspect the present invention relates to a method for identifying an antineoplastic agent, comprising:

(a) contacting a test compound with a cell that expresses at least one gene corresponding to a polynucleotide comprising a nucleotide sequence of Genes 1 - 3049 of Figure 1 and under conditions promoting expression of said gene; and

(b) determining a change in expression of said gene as a result of said contacting

wherein a change in expression indicates gene modulation thereby identifying said test compound as a gene modulating agent. In a preferred embodiment thereof, the change in expression is a decrease in expression.

In a further aspect, the present invention relates to a method for identifying a compound as an anti-neoplastic agent, comprising:

(a) contacting a test compound with a polypeptide encoded by a gene selected from Genes 1 – 3049 of Figure 1,

(b) determining a change in a biological activity of said polypeptide due to said contacting,

wherein a change in activity indicates anti-neoplastic activity and thereby identifies such test compound as an agent having antineoplastic activity.

Preferably, the change in biological activity is a decrease in biological activity. Also preferred is where the biological activity is an enzyme activity, most preferably involving an enzyme selected from kinase, protease, peptidase, phosphodiesterase, phosphatase, dehydrogenase, reductase, carboxylase, transferase, deacetylase and polymerase. Also preferred is a biological activity that is a membrane transport activity, an integrin, a Cytochrome P450 enzyme, a nuclear hormone receptor, or a receptor activity, such as a G-protein-coupled receptor. In other preferred embodiments, the polypeptide is contained in a cell.

The present invention also relates to a method for treating cancer comprising contacting a cancerous cell with an agent first identified as having gene modulating activity using any of the methods of the invention and in an amount effective to cause a reduction in cancerous activity of said cell. In a preferred embodiment, said cancerous cell is contacted *in vivo*, as where the agent is administered to a mammal, especially a human being, afflicted with cancer and in an amount sufficient to ameliorate the cancer.

The present invention further relates to a method for treating cancer comprising contacting a cancerous cell with an agent having affinity for an expression product of a gene corresponding to a polynucleotide comprising a nucleotide sequence of Gene 1 – 3049 of Figure 1 and in an amount effective to cause a reduction in cancerous activity of said cell. Preferably, the expression product is a polypeptide and the agent is an antibody.

The present invention also relates to a method for monitoring the progress of cancer therapy in a patient comprising monitoring in a patient undergoing cancer therapy the expression of a gene corresponding to a polypeptide having a sequence selected from Genes 1 – 3049 of Figure 1, preferably wherein the gene comprises a sequence of Gene 1 – 3049 of Figure 1, such as where the cancer therapy is chemotherapy.

In a further embodiment, the present invention relates to a method for determining the likelihood of success of cancer therapy in a patient, comprising monitoring in a patient undergoing cancer therapy the expression of a gene corresponding to a polynucleotide having a sequence of one or Genes 1 – 3049 of Figure 1 wherein a decrease in said expression prior to completion of said cancer therapy is indicative of a likelihood of success of said cancer therapy, preferably wherein the gene comprises a sequence of Gene 1-3049 of Figure 1 and wherein the cancer therapy is chemotherapy.

The present invention still further relates to a method for determining the progress of a treatment for cancer in a patient afflicted therewith, following commencement of a cancer treatment on said patient, comprising:

5 (a) determining in said patient a change in expression of one or more genes corresponding to a polynucleotide comprising a nucleotide sequence of Gene 1 – 3049 of Figure 1; and

(b) determining a change in expression of said gene compared to expression of said one or more determined genes prior to commencement of said cancer treatment;

10 wherein said change in expression indicates progress of said treatment thereby determining the progress of said treatment. Preferred embodiments include where the change in expression is a decrease in expression and said decrease indicates success of said treatment.

15

BRIEF DESCRIPTION OF THE DRAWING

20 Figure 1 shows the nucleotide sequences of cDNAs derived from genes present in the amplicons of the invention.

DEFINITIONS

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As used herein, the following terms have the indicated definition unless expressly stated otherwise.

30 The term "amplicon" refers to regions of interest, i.e., genomic segments of DNA within human chromosomes in diseased states like cancer that are demarcated and limited within specific chromosomal bands. Since these

amplicons contain sequences of a gene/ or genes that are amplified (copy number gains), and/ or differentially expressed in the tissue/ cells of origin, a listing of these genes within the amplicons detected are listed in Figure 1. Genes identified as being amplified and/or over-expressed within the amplicons provide
5 a useful target for intervention with small/large molecule/protein/antibody therapeutics, anti-sense or other therapeutic modalities. A gene or genes within these regions is also useful for diagnostic or prognostic molecular pathology characterization/companion diagnostics, and useful as pharmacodynamic biomarkers for drug response profiling and patient sub-set selection and
10 stratification.

The term “percent identity” or “percent identical,” when referring to a sequence, means that a sequence is compared to a claimed or described sequence after alignment of the sequence to be compared (the “Compared
15 Sequence”) with the described or claimed sequence (the “Reference Sequence”). The Percent Identity is then determined according to the following formula:

$$\text{Percent Identity} = 100 [1-(C/R)]$$

20 wherein C is the number of differences between the Reference Sequence and the Compared Sequence over the length of alignment between the Reference Sequence and the Compared Sequence wherein (i) each base or amino acid in the Reference Sequence that does not have a corresponding aligned base or amino acid in the Compared Sequence and (ii) each gap in the Reference
25 Sequence and (iii) each aligned base or amino acid in the Reference Sequence that is different from an aligned base or amino acid in the Compared Sequence, constitutes a difference; and R is the number of bases or amino acids in the Reference Sequence over the length of the alignment with the Compared Sequence with any gap created in the Reference Sequence also being counted
30 as a base or amino acid.

If an alignment exists between the Compared Sequence and the Reference Sequence for which the percent identity as calculated above is about equal to or greater than a specified minimum Percent Identity then the Compared Sequence has the specified minimum percent identity to the Reference Sequence even though alignments may exist in which the hereinabove calculated Percent Identity is less than the specified Percent Identity.

As used herein, the terms "portion," "segment," and "fragment," when used in relation to polypeptides, refer to a continuous sequence of residues, such as amino acid residues, which sequence forms a subset of a larger sequence. For example, if a polypeptide were subjected to treatment with any of the common endopeptidases, such as trypsin or chymotrypsin, the oligopeptides resulting from such treatment would represent portions, segments or fragments of the starting polypeptide. When used in relation to a polynucleotide, such terms refer to the products produced by treatment of said polynucleotides with any of the common endonucleases, or any stretch of polynucleotides that could be synthetically synthesized.

As used herein, the term "DNA segment" or "DNA sequence" refers to a DNA polymer, in the form of a separate fragment or as a component of a larger DNA construct, which has been derived from DNA, and may include both single stranded and duplex sequences. Such segments are provided in the form of an open reading frame uninterrupted by internal non-translated sequences, or introns, which are typically present in eukaryotic genes.

The term "coding region" refers to that portion of a gene which either naturally or normally codes for the expression product of that gene in its natural genomic environment, i.e., the region coding *in vivo* for the native expression product of the gene.

The term "nucleotide sequence" refers to a heteropolymer of deoxyribonucleotides. Generally, DNA segments encoding the proteins provided by this invention are assembled from cDNA fragments and short oligonucleotide linkers, or from a series of oligonucleotides, to provide a synthetic gene which is
5 capable of being expressed in a recombinant transcriptional unit comprising regulatory elements derived from a microbial or viral operon.

The term "expression product" means that polypeptide or protein that is the natural translation product of the gene and any nucleic acid sequence coding
10 equivalents resulting from genetic code degeneracy and thus coding for the same amino acid(s).

The term "fragment," when referring to a coding sequence, means a portion of DNA comprising less than the complete coding region whose expression
15 product retains essentially the same biological function or activity as the expression product of the complete coding region.

20 DETAILED SUMMARY OF THE INVENTION

The present invention relates to a set of genes that are amplified and/or over-expressed genes in cancer cell lines and have been localized to various chromosomal regions of interest. These genes have been identified through a
25 combination of CGH, SKY, expression analysis and Reverse Transcriptase-Polymerase Chain Reaction (RT-PCR). Such genes are both markers and potential therapeutic targets for cancer, in particular breast, colon, lung and prostate malignancies. In addition, the amplified nature of such genes provides a means of diagnosing a cancerous condition, or predisposition to a cancerous
30 conditions, by determining the amplification of one or more of such genes in a

patient afflicted with, or predisposed toward, or otherwise at risk of developing, cancer.

In one aspect the present invention relates to a set of genes that have been localized within human chromosomal regions of interest (ROI) that have been identified by molecular cytogenetic techniques. In particular, the present invention relates to chromosomal regions of interest, or amplicons, that are summarized in Table 1. Table 2 lists tissues where the amplicons are found, cell lines expressing them, the amplification ratios found in those tissues for cancer versus normal cells, amplicon size and the chromosomal locations of the amplicons. Table 3 lists the chromosomal locations and accession number identifications of these regions of interest and which serve to correlate amplicons with the cDNA sequences of Figure 1.

Table 1 - List of Amplicons

	AMPLICON	CHR	BPSTART	BPEND	BPLENGTH
20	A1	8	122000000	127500000	5500000
	A2	13	96500000	100000000	3500000
	A3	5	175000000	181500000	6500000
	A4	13	26500000	34000000	7500000
	A5	7	101000000	106000000	5000000
25	A6	10	73500000	82500000	9000000
	A7	7	71000000	77500000	6500000
	A8	1	116500000	120000000	3500000
	A9	6	36000000	41000000	5000000
	A10	18	70500000	76500000	6000000
30	A11	9	9000000	18500000	9500000

For Table 1, CHR means chromosome number, BPLENGTH represents the number of nucleotides in the amplicon. BPSTART refers to "base pair start point" and BPEND refers to "base pair end point" along the chromosome based on the July 2003 human reference sequence UCSC version hg16 (NCBI Build 34).

Table 2. Amplicon Locations

cell line	Amp #	tissue	chrom	band start	band stop	Ratio	amplicon size MB
HCC1954	A1	Breast	8	q24.13	q24.13	14	5.3
NCI_H446	A1	scLung	8	q24.13	q24.21	8	8.3
NCI_H827	A1	scLung	8	q24.13	q24.21	6	8.3
HCC202	A1	Breast	8	q24.13	q24.21	6	8.3
NCI_H82	A1	scLung	8	q24.13	q24.13	7	5.3
NCI_H23	A1	nscLung	8	q24.13	q24.13	7	5.3
MDA_MB436	A2	Breast	13	q32.2	q32.3	6	5.3
NCI_H1963	A2	scLung	13	q32.3	q32.3	6	3.3
EFM192A	A2	Breast	13	q32.3	q34	8	18.8
MDA_MB157	A2	Breast	13	q32.3	q34	5	18.8
HCC1937	A2	Breast	13	q32.3	q32.3	4	3.3
SKBR3	A2	Breast	13	q32.3	q32.3	4	18.8
NCI_H1963	A2	nscLung	13	q32.3	q32.3	6	3.3
HCC1954	A3	Breast	5	q35.3	q35.3	4	4.3
MDA_MB436	A3	Breast	5	q35.1	q35.3	7	14
BT20	A4	Breast	5	q35.1	q35.3	4	14
KPL1	A5	Breast	5	q35.1	q35.3	4	14
HCC3153	A6	Breast	5	q35.3	q35.3	3	4.3
HT29	A4	Colon	13	q12.3	q13.2	5	9
SW403	A4	Colon	13	q21.1	q21.2	15	6
BT20	A4	Breast	13	q12.3	q13.2	4	9
CPDR9	A4	Prostate	13	q12.2	q12.3	2	7.1
SW480	A5	Colon	7	q22.2	q22.2	9	1
X71	A5	Colon	7	q22.1	q22.2	5	7.2
X72	A5	Colon	7	q22.3	q22.3	6	3.3
Lovo	A6	Colon	7	q22.1	q22.2	5	7.2
X1819_1	A7	Colon	7	q22.1	q22.2	5	7.2
EFM19	A6	Breast	10	q22.1	q22.3	6	15.3
PC3	A6	Prostate	10	q22.2	q22.3	7	8.3
MDA_MB436	A6	Breast	10	q22.1	q22.2	3	10.7
SKBR3	A6	Breast	10	q22.2	q22.3	4	8.3
SW48	A6	Colon	10	q22.1	q22.3	4	15.3
X71	A6	Colon	10	q22.2	q22.3	2	8.3
SKBR3	A7	Breast	7	q11.23	q11.23	5	4
X72	A7	Colon	7	q11.23	q11.23	7	4
X71	A7	Colon	7	q11.23	q11.23	5	4
X1819_1	A7	Colon	7	q11.23	q11.23	4	4
NCI_H69	A7	scLung	7	q11.23	q11.23	4	4
BT20	A8	Breast	1	p12.2	p13.2	10	9
CAMA-1	A8	Breast	1	p12	p12	6	6.7
KPL-1	A8	Breast	1	p11.2	p13.3	11	14.7

Colo205	A9	Colon	6	p21.2	p21.2	8	3.4
MDA_MB231	A9	Breast	6	p21.1	p21.2	7	9.8
NCI_H522	A9	nscLung	6	p21.2	p21.31	6	9.1
PANC-1	A10	Pancreas	18	q23	q23	7	5.2
NCI_H1607	A11	scLung	9	p22.2	p23	10	14.5
NCI_H446	A11	scLung	9	p22.3	p22.3	8	2.9
HCC1954	A11	Breast	9	p22.2	p23	10	14.5

In addition, Figure 1 represents the nucleotide sequences for cDNA sequences corresponding to genes located in these regions of interest. Such regions contain genes found to be amplified and over-expressed in cancerous tissues, especially of breast, colon, lung, cervix, kidney, pancreas and prostate.

Each amplicon may contain about 75 genes, at least one of which will be amplified in a cancerous condition. Genes that show amplification and/or over-expression can be indicative of the cancerous status of a given cell.

Briefly, the procedures used to identify the genes disclosed herein may be summarized as follows:

For CGH analysis, based on detailed molecular cytogenetic characterizations, the following data sets are generated, which may include regions reported in the public domain as well as unique regions not previously known.

1. A map of chromosomal regions involved in consistent, recurrent and high level genomic gains (i.e., amplifications) for a representative cancer cell line or tumor type (e.g. colon, prostate, breast and lung) that can be recognized as a pattern/signature for a given tumor type.
2. A map of chromosomal regions containing genomic losses (i.e., deletions) in each tumor type and individual cell line to be examined.

3. Levels of intensities of gains and losses categorized for entry into a database.
4. A comparison of the patterns of gains and losses between the clinical samples (e.g. colon xenografts) and cell lines (e.g., colon) of matched Stages and Grades.
5. A comparison of the patterns of gains and losses between primary prostate tumor cell lines (e.g., CPDR lines) and metastatic prostate tumor cell lines (e.g., DU 145, PC3 and LNCaP).

10 In accordance with the present invention, for SKY analysis, data sets were generated according to the following steps:

1. Identification and development of a database of novel chromosomal rearrangements in epithelial cancer cell lines.
2. Identification of novel translocations involving specific chromosomes or chromosomal regions
3. Reconciliation of SKY and CGH analysis on the same cell line as a verification of the combined findings.

20 Combining genomic DNA analysis of gains and losses in the tumor cell lines/clinical samples with cDNA expression analysis from matched tumor types displayed ordered on the assembled Human genome sequence :

1. A pattern of gene expression on a Affymetrix chip set (U95 and U133) was used to generate differential gene expression profiles between samples sets containing normal and malignant tissues from colon, prostate, lung, breast and various cell lines.
2. A Spotfire™ visualization tool was developed that allowed the generation of a list of all the genes that are present in the Human genome sequence within the defined regions of gains/losses for each cell type/tumor type to identify genes to include in the HITS platform and for identification of cancer associated genes

3. The following algorithm was employed:

- 5 i) Match chromosomal regions of amplification/gains defined by CGH with the location of genes/ESTs on an Affymetrix chip as mapped to a Human genome template.
- ii) Identify genes/ESTs over-expressed in tumor tissue compared to normal tissue in said chromosomal regions using.
- 10 iii) Compile data on cell lines of a particular tumor type and different tumor types showing clusters of genomic gains and losses at certain chromosomal regions.
- iv) Pick BACs that span the chromosomal regions consistently gained and containing over-expressed genes in an effort to positionally clone novel cancer genes (oncogenes and genes in relevant pathways)
- 15 v) Validate the identified genes by
 - A) Picking STS markers that identify the gene sequence and quantify the relative copy number in genomic DNA and RNA across a panel of tumor cell lines.
 - 20 B) Develop probes for FISH on chromosomes from tumor cell lines and primary tumor tissue micro-arrays.

4. The expression data from tumor cell lines that have undergone SKY/CGH analysis was used to pick candidate genes to validate as individual targets in functional genomic assays and in-vivo assays and for use in the transcriptional assay platform.

25

In accordance with the present invention, over-expression of cellular genes is conveniently monitored in model cellular systems using cell lines (such as is used in the example below), primary cells, or tissue samples maintained in growth media. For different purposes, these may be treated with compounds at one or more different concentrations to assay for modulating agents. Thus,

30

cellular RNAs are isolated from the cells or cultures as an indicator of selected gene expression. The cellular RNAs are then divided and subjected to analysis to determine the presence and/or quantity of specific RNA transcripts, which transcripts are then amplified for detection purposes using standard methodologies, such as reverse transcriptase polymerase chain reaction (RT-PCR). The levels of specific RNA transcripts, including their presence or absence, are determined. When used for identification of modulating agents, such as anti-neoplastic agents, a metric is derived for the type and degree of response of the treated sample compared to control samples.

In accordance with the foregoing, the amplicons identified as being amplified and/or over-expressed, which can include increased copy number thereof, in cancerous cells are localized in chromosomal regions of interest as identified in Tables 2 and 3.

The genes localized in these amplicons may be utilized to characterize, the cancerous, or non-cancerous, status of cells, or tissues. The methods of the invention may be used with a variety of cell lines or with primary samples from tumors maintained *in vitro* under suitable culture conditions for varying periods of time, or *in situ* in suitable animal models.

The amplicons disclosed herein are expressed at levels in cancer cells that are different from the expression levels in non-cancer cells. Expression in cancer versus non-cancer cells of the same tissue type is a key identifier.

In accordance with the foregoing, the present invention also relates to a method for identifying a gene modulating agent, such as an anti-neoplastic agent, comprising:

(a) contacting a test compound, a compound whose gene-modulating and/or anti-neoplastic activity is to be determined, with one or more cells

expressing one or more genes mapped to the chromosomal region of interest, or amplicon, for genes as identified in Table 3, and

(b) determining a change in expression of said one or more genes compared to when said contacting has not occurred,

5 wherein a change in expression of said gene is indicative of gene modulating activity, thereby identifying said test compound as a gene modulating agent.

10 In accordance with the foregoing, the present invention relates to a method for identifying an antineoplastic agent, comprising:

(a) contacting a test compound with a cell that expresses one or more amplicons of Table 2 having an amplification ratio of at least 2.0; and

(b) determining a change in said amplification ratio due to said contacting; wherein a change in said amplification ratio due to said contacting
15 indicates that said test compound has gene modulating activity
 thereby identifying said test compound as a gene modulating agent.

The present invention also contemplates a method for identifying an antineoplastic agent, comprising:

20 (a) contacting a test compound with a cell that expresses at least one gene corresponding to a polynucleotide comprising a nucleotide sequence of Genes 1 - 3049 of Figure 1 and under conditions promoting expression of said gene; and

(b) determining a change in expression of said gene as a result of said
25 contacting

 wherein a change in expression indicates gene modulation thereby identifying said test compound as a gene modulating agent.

30 In preferred embodiments of these methods, the change in expression is a decrease in expression and/or the decrease in expression is a decrease in copy number of the gene and/or the gene comprises a nucleotide sequence of one of

Genes 1 – 3049 of Figure 1 and/or the cell was genetically engineered to express said gene.

5 Because the genes disclosed herein are over-expressed and relate to the cancerous condition of a cell, successful anti-neoplastic activity will commonly be exhibited by agents that reduce the expression of said genes. In one embodiment thereof, the change in expression is a decrease in copy number of the gene or genes under study. In accordance therewith, said change in gene copy number is conveniently determined by detecting a change in expression of messenger RNA
10 encoded by said gene sequence. In another preferred embodiment, expression is determined for more than one such gene, such as 2, 5, 10 or more of the genes.

Thus, the present invention also encompasses a method for detecting the cancerous status of a cell, comprising detecting elevated expression in said cell
15 of at least one gene corresponding to a polynucleotide comprising a nucleotide sequence of Genes 1 – 3049 of Figure 1 whereby such elevated expression is indicative of cancerous status of the cell. In preferred embodiments thereof, the elevated expression is an elevated copy number of the gene.

20 Other methods useful in measuring a change in expression of the genes disclosed herein include measuring a change in the amount or rate of synthesis of a polypeptide encoded by said gene, preferably a decrease in synthesis of said polypeptide. Most preferably, the polypeptide comprises an amino acid sequence highly homologous to a sequence encoded by a gene mapping to an
25 amplicon disclosed herein and whose expression is elevated in cancer.

The methods of the invention can thus be utilized to identify anti-neoplastic agents useful in treatment of cancerous conditions. Such activity can be further modified by first identifying such an agent using an assay as already
30 described and further contacting such agent with a cancerous cell, followed by monitoring of the status of said cell, or cells. A change in status indicative of

successful anti-neoplastic activity may include a decrease in the rate of replication of the cancerous cell(s), a decrease in the total number of progeny cells that can be produced by said cancerous cell(s), or a decrease in the number of times said cancerous cell(s) can replicate, or the death of said
5 cancerous cell(s).

Anti-neoplastic agents may also be identified using recombinant cells suitably engineered to contain and express the cancer-related genes disclosed herein. In one such embodiment, a recombinant cell is formed using standard
10 technology and then utilized in the assays disclosed herein. Methods of forming such recombinant cells are well known in the literature. See, for example, Sambrook, et al., *Molecular Cloning: A Laboratory Manual*, Second Edition, Cold Spring Harbor, N.Y., (1989), Wu et al, *Methods in Gene Biotechnology* (CRC Press, New York, NY, 1997), and *Recombinant Gene Expression Protocols*, in
15 *Methods in Molecular Biology*, Vol. 62, (Tuan, ed., Humana Press, Totowa, NJ, 1997), the disclosures of which are hereby incorporated by reference.

The present invention also relates to a method for detecting the cancerous status of a cell, comprising detecting elevated copy number and/or expression in
20 said cell of at least one gene that maps to a chromosomal region of interest, or amplicon, as identified in Table 3. Such elevated expression may be readily monitored by comparison to that of otherwise normal cells having the same genes. Elevated expression of such genes is indicative of the cancerous state. Such elevated expression, including increased copy number, may be the
25 expression of more than one such gene.

The present invention also relates to a method for detecting a cancer-linked gene comprising the steps of contacting a test compound, identified as having gene modulating activity for a gene mapping to one of the amplicons
30 disclosed herein, with a cell expressing a test gene and detecting modulation, such as decreased activity, of such test gene relative to when said compound is

not present thereby identifying said test gene as a cancer-related gene. In preferred embodiments, the gene determined by said method is an oncogene, or cancer facilitating gene.

5 In another embodiment, there is provided a method for treating cancer comprising contacting a cancerous cell with an agent first identified as having gene modulating activity using any of the assay methods disclosed according to the invention and in an amount effective to reduce the cancerous activity of said cell. In a preferred embodiment, the cancerous cell is contacted *in vivo*. In other
10 preferred embodiments, said reduction in cancerous activity is a decrease in the rate of proliferation of said cancerous cell, or said reduction in cancerous activity is the death of said cancerous cell.

 The present invention further relates to a method for treating cancer
15 comprising contacting a cancerous cell with an agent having activity against an expression product encoded by a gene mapping to an amplicon as disclosed herein, preferably where the expression product is a polypeptide. In a preferred embodiment, said cancerous cell is contacted *in vivo*. In another preferred embodiment, the agent is an antibody.

20 Nucleotide sequences mapping to the amplicons disclosed herein may be genomic in nature and thus represent the sequence of an actual gene, such as a human gene, or may be a cDNA sequence derived from a messenger RNA (mRNA) and thus represent contiguous exonic sequences derived from a
25 corresponding genomic sequence or they may be wholly synthetic in origin for purposes of testing. Such cDNA sequences, mapping to the amplicons disclosed herein are identified in Figure 1.

 As described in the Example below, the expression of cancer-related
30 genes may be determined from the relative expression levels of the RNA complement of a cancerous cell relative to a normal (i.e., non-cancerous) cell.

Because of the processing that may take place in transforming the initial RNA transcript into the final mRNA, the sequences disclosed herein may represent less than the full genomic sequence. They may also represent sequences derived from ribosomal and transfer RNAs. Consequently, the genes present in the cell (and representing the genomic sequences) and the sequences disclosed in Figure 1, which are mostly cDNA sequences, may be identical or may be such that the cDNAs contain less than the full genomic sequence. Such genes and cDNA sequences are still considered corresponding sequences because they both encode similar RNA sequences. Thus, by way of non-limiting example only, a gene that encodes an RNA transcript, which is then processed into a shorter mRNA, is deemed to encode both such RNAs and therefore encodes an RNA complementary to (using the usual Watson-Crick complementarity rules), or that would otherwise be encoded by, a cDNA (for example, a sequence as disclosed herein). Thus, the sequences disclosed herein correspond to genes contained in the cancerous or normal cells used to determine relative levels of expression because they represent the same sequences or are complementary to RNAs encoded by these genes. Such genes also include different alleles and splice variants that may occur in the cells used in the methods of the invention.

In addition, sequences encoding the same proteins as any of these genes, regardless of the percent identity of such sequences, are also specifically contemplated by any of the methods of the present invention that rely on any or all of said sequences, regardless of how they are otherwise described or limited. Thus, any such sequences are available for use in carrying out any of the methods disclosed according to the invention. Such sequences also include any open reading frames, as defined herein, present within any genes mapping to the amplicons of the invention.

The present invention also finds use as a means of diagnosing the presence of cancer in a patient, as where a sample of cancerous tissue or cells, or tissues or cells suspected of being cancerous, are examined for elevated

expression, such as at least 2 fold expression, of a gene in one of the amplicons disclosed herein, such as an increased expression of a cDNA sequence, or polypeptide encoded by said cDNA sequence, disclosed in Figure 1 and being one of the sequences of Gene 1 – 3049.

5

For such purposes, and in accordance with the disclosure elsewhere herein, such diagnosis is based on the detection of elevated expression or amplification, such as elevated copy number, of one or more of the genes identified according to the invention. Such elevated expression can be
10 determined by any of the means described herein.

In one such embodiment, the elevated expression, as compared to normal cells and/or tissues of the same organ, is determined by measuring the relative rates of transcription of RNA, such as by production of corresponding cDNAs and
15 then analyzing the resulting DNA using probes developed from genes mapping to the amplicons of the invention. Thus, the levels of cDNA produced by use of reverse transcriptase with the full RNA complement of a cell suspected of being cancerous produces a corresponding amount of cDNA that can then be amplified using polymerase chain reaction, or some other means, such as rolling circle
20 amplification, to determine the relative levels of resulting cDNA and, thereby, the relative levels of gene expression.

For RNA analysis, the latter may be isolated from samples in a variety of ways, including lysis and denaturation with a phenolic solution containing a
25 chaotropic agent (e.g., triazol) followed by isopropanol precipitation, ethanol wash, and resuspension in aqueous solution; or lysis and denaturation followed by isolation on solid support, such as a Qiagen resin and reconstitution in aqueous solution; or lysis and denaturation in non-phenolic, aqueous solutions followed by enzymatic conversion of RNA to DNA template copies. Steady state
30 RNA levels for a given type of cell or tissue may have to be ascertained prior to

employment of the methods of the invention but such is well within the skill of those in the art and will not be further described in detail herein.

Alternatively, increased expression, such as increased copy number, may be determined for the genes present in a cancerous cell, or a cell suspected of being cancerous, by determining elevated expression within the regions of interest, or amplicons, disclosed herein. Thus, the DNA of such cells may be extracted and probed for increased gene expression within the area disclosed herein as amplified in different cancer types and tissues.

In employing the methods of the invention, it should be borne in mind that gene expression indicative of a cancerous state need not be characteristic of every cell found to be cancerous. Thus, the methods disclosed herein are useful for detecting the presence of a cancerous condition within a tissue where less than all cells exhibit the complete pattern of over-expression. For example, a set of selected genes, which are found within the regions of interest disclosed herein, may be found, using appropriate probes, either DNA or RNA, to be present in as little as 60% of cells derived from a sample of tumorous, or malignant, tissue while being absent from as much as 60% of cells derived from corresponding non-cancerous, or otherwise normal, tissue (and thus being present in as much as 40% of such normal tissue cells). In a preferred embodiment, such gene pattern is found to be present in at least 70% of cells drawn from a cancerous tissue and absent from at least 70% of a corresponding normal, non-cancerous, tissue sample. In an especially preferred embodiment, such gene pattern is found to be present in at least 80% of cells drawn from a cancerous tissue and absent from at least 80% of a corresponding normal, non-cancerous, tissue sample. In a most preferred embodiment, such gene pattern is found to be present in at least 90% of cells drawn from a cancerous tissue and absent from at least 90% of a corresponding normal, non-cancerous, tissue sample. In an additional embodiment, such gene pattern is found to be present in at least 100% of cells drawn from a cancerous tissue and absent from at least 100% of a

corresponding normal, non-cancerous, tissue sample, although the latter embodiment may represent a rare occurrence.

5 Because changes in expression of these genes (up-regulation) are linked to the disease state (i.e. cancer), the change in expression may contribute to the initiation or progression of the disease. For example, if a gene that is up-regulated is an oncogene such a gene provides for a means of screening for small molecule therapeutics beyond screens based upon expression output alone. For example, genes that display up-regulation in cancer and whose
10 elevated expression contributes to initiation or progression of disease represent targets in screens for small molecules that inhibit or block their function. Examples include, but are not be limited to, kinase inhibition, cellular proliferation, substrate analogs that block the active site of protein targets, etc.

15 It should be noted that there are a variety of different contexts in which genes have been evaluated as being involved in the cancerous process. Thus, some genes may be oncogenes and encode proteins that are directly involved in the cancerous process and thereby promote the occurrence of cancer in an animal. Other genes may simply be involved either directly or indirectly in the
20 cancerous process or condition and may serve in an ancillary capacity with respect to the cancerous state. All such types of genes are deemed with those to be determined in accordance with the invention as disclosed herein. Thus, the gene determined by said method of the invention may be an oncogene, or the gene determined by said method may be a cancer facilitating gene, the latter
25 including a gene that directly or indirectly affects the cancerous process, either in the promotion of a cancerous condition or in facilitating the progress of cancerous growth or otherwise modulating the growth of cancer cells, either *in vivo* or *ex vivo*. Such genes may work indirectly where their expression alters the activity of some other gene or gene expression product that is itself directly
30 involved in initiating or facilitating the progress of a cancerous condition. For example, a gene that encodes a polypeptide, either wild or mutant in type, which

polypeptide acts to suppress of tumor suppressor gene, or its expression product, will thereby act indirectly to promote tumor growth.

5 Many cancerous genes appear to have their effect by encoding an aberrant protein that functions in a cell in a manner different from that of normal cells, or else said protein is overproduced or underproduced as a result of some mutation in the coding sequence, or promoter or enhancer sequences, of a particular gene, such as one of Genes 1 – 3049 disclosed herein and expressed by the amplicons of the invention.

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In accordance with the present invention, there are provided methods for measuring the activity, such as a biological activity, of such a polypeptide. Such biological activity may include any measurable activity, such as chemical reactivity, catalytic ability, binding to specific structures and receptors, acting as a
15 receptor, or just being present in a membrane of a cell and therefore available as a target site for antibodies or other agents. Any such polypeptides may thus provide a target for a chemotherapeutic agent, especially an antineoplastic agent.

20

As is well known in the art, polypeptide activities can be measured in different ways so as to enable screening procedures for agents, such as test compounds, that inhibit the activity of the polypeptide and thereby work against the function of that polypeptide, such as where the polypeptide is some type of cancer-related protein, such as that produced by expression of
25 an oncogene, or where the polypeptide is overproduced as part of the cancer initiating or facilitating process. As non-limiting examples, such screening methods for antineoplastic agents can include the measurement of compounds that bind to proteins (or that bind to a gene or a transcript of a gene), compounds that inhibit expression (including processing and/or
30 maturation) of a protein, or the detection of downstream reaction product, most often with specific antibodies using enzyme-linked immunosorbent

assay (ELISA) procedures well known in the art, or compounds that inhibit activity, such as enzyme activity or some other function, or compounds that interact with upstream or downstream proteins (such as with transcription factors or other binding proteins that may serve to regulate gene expression).

5

In accordance with the foregoing, the present invention relates to a method for identifying a compound as an anti-neoplastic agent, comprising:

(a) contacting a test compound with a polypeptide encoded by a gene selected from Genes 1 – 3049 of Figure 1,

10 (b) determining a change in a biological activity of said polypeptide due to said contacting,

wherein a change in activity indicates anti-neoplastic activity and thereby identifies such test compound as an agent having antineoplastic activity.

15 In a preferred embodiment, the change in biological activity is a decrease in biological activity.

In another preferred embodiment, the biological activity is an enzyme activity, such as where the enzyme is one selected from the group kinase, protease, peptidase, phosphodiesterase, phosphatase, dehydrogenase, 20 reductase, carboxylase, transferase, deacetylase and polymerase.

Assays for these enzymes are available, such as for phosphodiesterases (the most pharmacologically relevant phosphodiesterases are those that 25 hydrolyze cyclic nucleotides (see, for example, cAMP and cGMP assays available from Perkin-Elmer, as well as Estrade et al., Eur. J. Pharmacol. 352:2-3, 157-163 (1998)).

Protein phosphatases remove phosphate residues from proteins. Most 30 tests of their activity use the same assays as for protein kinases. A non-radioactive phosphatase assay system is available from Promega Biotech.

The therapeutically most relevant dehydrogenases oxidize or reduce small molecular weight metabolites, esp. steroid hormones, or that generally use or generate NAD or NADP (see: Haeseleer et al., J. Biol. Chem., 5 273:21790-21799 (1998)). A commercial assay is available from Cayman Chemical (at www.caymanchem.com).

Gamma-carboxylases are important enzymes in the blood coagulation process. The main assay protocols use synthetic peptides (see: Ulrich et al., 10 J. Biol. Chem., 263:9697-9702 (1988); Begley et al., J. Biol. Chem., 275:36245-36249 (2000)).

In highly preferred embodiments, the kinase is one of a protein kinase, a 15 serine or threonine kinase, or a receptor tyrosine protein kinase. Where the polypeptide encoded by a gene of the invention is a protein kinase, especially involving tyrosine kinase, various assays for activity are available. Protein kinases add phosphate groups to serine, threonine or tyrosine residues on proteins, most commonly measured with phospho-serine, threonine, or 20 tyrosine-specific antibodies, or generation of radiolabeled substrate, or consumption of ATP, or phosphorylation of (synthetic) small peptides, or measuring downstream enzyme activity and gene transcription. Such assays are commercially available. (See, for example, the tyrosine kinase assay from Roche Molecular Biochemicals). Assays for serine/threonine kinases are also 25 available at Chromagen.com, Upstate Biotechnology, Inc. (Lake Placid, NY, and at upstatebiotech.com) and from Applied BioSystems (Foster City, CA (home.appliedbiosystems.com)).

In other specific embodiments, the protease is a serine protease, cysteine 30 protease or aspartic acid protease, or the transferase is a methyltransferase, preferably a cytosine methyltransferase or an adenine methyltransferase, or the

deacetylase is a histone deacetylase, or the carboxylase is a γ -carboxylase, or the peptidase is a zinc peptidase, or the polymerase is a DNA polymerase or an RNA polymerase.

5 Proteases degrade proteins, un-specifically or at specific sites. Almost all pharmacologically relevant ones have very narrowly defined specific substrates, and their activity is most often measured by directly measuring cleavage product or generation of (fluorescent) light after cleavage of synthetic substrates. Assays are available for serine proteases (Calbiochem,
10 Palo Alto, CA, and see Berdichevsky et al., J. Virol. Methods, 107:245-255 (2003), for cysteine proteases (See: Schulz et al., Mol. Pathol., 51:222-24 (1998) and Selzer et al., PNAS, 96:11015-11022 (1999)), for aspartic acid proteases (Geno Tech, Inc. at www.genotech.com) and for zinc peptidases (see Evans et al., J. Biol. Chem., 278:23180-23186 (2003)).

15 Both (regulatory) DNA-methylases and (biosynthetic) protein methylases that are drug targets. (See: Jonassen and Clarke, J. Biol. Chem., 275:12381-12387 (2000); Jackson et al., Nature, 416:556-560 (2002)).

20 Most HDAC (histone deacetylase) assays use colorimetric or fluorometric (synthetic) substrates. Standard assays are for binding, especially molecular size changes, blocking a specific site, and effects on transcription or downstream reactions (if DNA or RNA is the direct target of
25 a drug). A commercial assay is available from Vinci Biochem (at www.vincibiochem.it).

In another specific embodiment, the biological activity is a membrane transport activity, preferably wherein the polypeptide is a cation channel protein,
30 an anion channel protein, a gated-ion channel protein or an ABC transporter protein. Drug effects on the activity of transporter and channel proteins are

screened by measuring increase or decrease of the ((radio-)labeled) transported entity inside or outside the cell, in cell-based assays, ATP consumption (in the case of ATPases), or changes in cell membrane potential. Assays employing such proteins are available, such as for ABC transporter (see: Marcil et al., Lancet, 354:1341-46 (1999) and for ion channels (from Evotec OAI, at www.evotecoi.com and from PharmaLinks, at www.pharmalinks.org/research/cellsignalling).

In one embodiment, the polypeptide is an integrin (the signal transduction pathways elicited by the integrins are slow and not very well characterized, hence most assays are either just binding assays or measure downstream biological phenomena (such as migration, invasion, etc.) (See: Ganta et al., Endocrinology, 138:3606-3612 (1997); Sim et al., J. Biomed. Mater. Research, 68A:352-359 (2004); and Weinreb et al., Anal. Biochem., 306:305-313 (2002)), or a Cytochrome P450 enzyme (almost all cytochrome assays require knowledge of what the substrate is and measure conversion of substrate (free or (radio-)labeled) or generation of product; useful C¹⁴-labeled substrates are available from Amersham Biosciences at www1.amershambiosciences.com), or a nuclear hormone receptor (Assays available from Discoverx, Fremont, CA, such as an estrogen assay; also see Rosen et al., Curr. Opin. Drug. Discov. Devel., 6:224-30 (2003)).

In one preferred embodiment, the biological activity is a receptor activity, preferably where the receptor is a G-protein-coupled receptor (GPCR).

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GPCRs are transmembrane proteins that wind 7 times back and forth through a cell's plasma membrane with a ligand binding site located on the outside of the membrane surface of the cell and the effector site being present inside the cell. These receptors bind GDP and GTP. In response to ligand binding, GPCRs activate signal transduction pathways which induce a

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number of assayable physiological changes, e.g., an increase in intracellular calcium levels, cyclic-AMP, inositol phosphate turnover, and downstream gene transcription (directly or via reporter-assays) along with other translocation assays available for measuring GPCR activation when the polypeptide encoded by a gene of the invention is a GPCR. Thus, such proteins work through a second messenger. The result is activation of CREB, a transcription factor that stimulates the production of gene products. One useful assay is the so-called BRET2/arrestin assay, useful in screening for compounds that interact with GPCRs. (See: Bertrand et al, J. Recept. Signal Transduct Res., 22:533-41 (Feb.-Nov. 2002)). In addition, numerous assays are commercially available, such as the Transfluor Assay, available from Norak Biosciences, Inc. (www.norakbio.com) or ArrayScan and KineticScan, both from Cellomics, or assays from CyBio (Jena, Germany).

Assays useful with the invention are usually set up to screen for agonists or antagonists after adding ligand, but effects on most of these parameters can be measured whether or not the ligand for the receptor is known. Such assays may involve radioligand-binding assays. Activation of the majority of GPCRs by agonists leads to the interaction of beta-arrestin (a protein that is involved in receptor desensitization and sequestration) with the receptor, which is measurable by fluorescence energy transfer

The disclosure of all journal articles, or other publications, referred to herein are hereby incorporated by reference in their entirety.

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In one embodiment, the polypeptide is in a solution or suspension and contact with the test compound is by direct contact between the test compound and the protein molecule. Alternatively, the polypeptide may be in a cell and the test compound may have to diffuse into the cell in order to contact the polypeptide. In an alternative embodiment, the test compound may be contacted

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with a cell that contains or expresses the polypeptide but the test compound may have no direct contact with the polypeptide. In stead, the test compound may act to induce production and/or activity of a different compound, such as an intracellular second messenger that serves to contact the polypeptide and
5 modulate or change the biological activity of this polypeptide.

In accordance with the foregoing, the method of the present invention includes cancer modulating agents that are themselves either polypeptides, or small chemical entities, that affect the cancerous process, including initiation,
10 suppression or facilitation of tumor growth, either *in vivo* or *ex vivo*. Such agents may also be antibodies that react with one or more polypeptides encoded by genes present in the amplicons of the invention.

In keeping with the disclosure herein, the present invention also relates to
15 a method for treating cancer comprising contacting a cancerous cell with an agent having activity against an expression product encoded by a gene mapping within regions of chromosomal interest

The method of the present invention includes embodiments of the above-
20 recited method wherein said cancer cell is contacted *in vivo* as well as *ex vivo*, preferably wherein said agent comprises a portion, or is part of an overall molecular structure, having affinity for said expression product. In one such embodiment, said portion having affinity for said expression product is an antibody.

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In one embodiment of the present invention, a chemical agent, such as a protein or other polypeptide, is joined to an agent, such as an antibody, having affinity for an expression product of a cancerous cell, such as a polypeptide or protein encoded by a gene related to the cancerous process, especially a gene
30 mapping to an amplicon as disclosed herein In a specific embodiment, said expression product acts as a therapeutic target for the affinity portion of said

anticancer agent and where, after binding of the affinity portion of such agent to the expression product, the anti-cancer portion of said agent acts against said expression product so as to neutralize its effects in initiating, facilitating or promoting tumor formation and/or growth. In a separate embodiment of the present invention, binding of the agent to said expression product may, without more, have the effect of deterring cancer promotion, facilitation or growth, especially where the presence of said expression product is related, either intimately or only in an ancillary manner, to the development and growth of a tumor. Thus, where the presence of said expression product is essential to tumor initiation and/or growth, binding of said agent to said expression product will have the effect of negating said tumor promoting activity. In one such embodiment, said agent is an apoptosis-inducing agent that induces cell suicide, thereby killing the cancer cell and halting tumor growth.

Many cancers contain chromosomal rearrangements, which typically represent translocations, amplifications, or deletions of specific regions of genomic DNA. A recurrent chromosomal rearrangement that is associated with a specific stage and type of cancer always affects a gene (or possibly genes) that play a direct and critical role in the initiation or progression of the disease. Many of the known oncogenes or tumor suppressor genes that play direct roles in cancer have either been initially identified based upon their positional cloning from a recurrent chromosomal rearrangement or have been demonstrated to fall within a rearrangement subsequent to their cloning by other methods. In all cases, such genes display amplification at both the level of DNA copy number and at the level of transcriptional expression at the mRNA level.

In accordance with the present invention, said functionally related genes are genes modulating the same metabolic pathway or said genes are genes encoding functionally related polypeptides. In one such embodiment, said genes are genes whose expression is modulated by the same transcriptional activator or enhancer sequence, especially where said transcriptional activator or

enhancer increases, or otherwise modulates, the activity of a gene mapping to one of the amplicons of the invention.

5 The present invention also relates to a process that comprises a method for producing a product, such as test data, comprising identifying an agent according to one of the disclosed methods for identifying such an agent (i.e., the therapeutic agents identified according to the assay procedures disclosed herein) wherein said product is the data collected with respect to said agent as a result of said identification process, or assay, and wherein said data is sufficient to convey
10 the chemical character and/or structure and/or properties of said agent. For example, the present invention specifically contemplates a situation whereby a user of an assay of the invention may use the assay to screen for compounds having the desired enzyme modulating activity and, having identified the compound, then conveys that information (i.e., information as to structure,
15 dosage, etc) to another user who then utilizes the information to reproduce the agent and administer it for therapeutic or research purposes according to the invention. For example, the user of the assay (user 1) may screen a number of test compounds without knowing the structure or identity of the compounds (such as where a number of code numbers are used the first user is simply given
20 samples labeled with said code numbers) and, after performing the screening process, using one or more assay processes of the present invention, then imparts to a second user (user 2), verbally or in writing or some equivalent fashion, sufficient information to identify the compounds having a particular modulating activity (for example, the code number with the corresponding
25 results). This transmission of information from user 1 to user 2 is specifically contemplated by the present invention.

In accordance with the foregoing, the present invention relates to a method for producing test data with respect to the anti-neoplastic activity of
30 a compound, such as a test compound as defined herein, comprising:

(a) identifying a test compound as having anti-neoplastic activity using a method of the invention, such as measuring the biological activity of a polypeptide encoded by a gene of Figure 1, and

5 (b) producing test data with respect to the anti-neoplastic activity of said test compound sufficient to identify the chemical structure of said test compound.

In another embodiment, the present invention provides a method for monitoring the progress of a cancer treatment, such as where the methods of the invention permit a determination that a given course of cancer therapy is or is not
10 proving effective because of an increased or decreased expression of a gene, or genes, mapping to an amplicon as disclosed herein. For example, where there is an increased copy number of one or more of said genes monitoring of such genes can predict success or failure of a course of therapy, such as chemotherapy, or predict the likelihood of a relapse based on elevated activity or
15 expression of one or more of these genes following such course of therapy.

In accordance with the foregoing, the present invention contemplates a method for determining the progress of a treatment for cancer in a patient afflicted with cancer, following commencement of a cancer treatment on said
20 patient, comprising determining in said patient a change in expression of one or more genes, preferably more than one, corresponding to a gene of Figure 1 or encoding a polypeptide or transcript of such a gene, or genes compared to expression of said one or more determined genes prior to commencement of said cancer treatment, wherein a change in expression, especially a decrease in
25 expression, indicates positive effects of such treatment, thereby determining the progress of said treatment.

In a preferred embodiment, the detected change in expression is a decrease in expression. In another preferred embodiment, the cancer treatment
30 is treatment with a chemotherapeutic agent, especially an agent that modulates, preferably decreases, expression of a gene identified herein, such as where said

agent was first identified as having anti-neoplastic activity using a method of the invention. Thus, in accordance with this aspect of the present invention, a patient, or even a research animal, such as a mouse, rat, rabbit or primate, afflicted with cancer, including a cancer induced for research purposes, is introduced to a cancer treatment regimen, such as administration of an anti-cancer agent, including one first identified as having anti-neoplastic activity by one or more of the screening methods disclosed herein. The progress and success or failure of such treatment is subsequently ascertained by determining the subsequent expression of one or more, preferably at least 3, or 5, or 10, of genes mapping to one or more of the amplicons disclosed herein, preferably to the same amplicon, or that encodes a transcript or polypeptide of such a gene following said treatment. In a preferred embodiment, a treatment that reduces said expression is deemed advantageous and may then be the basis for continuing said treatment. The methods of the invention thereby provide a means of continually monitoring the success of the treatment and evaluating both the need, and desirability, of continuing said treatment. In addition, more than one said treatment may be administered simultaneously without diminishing the value of the methods of the invention in determining the overall success of such combined treatment. Thus, more than one said anti-neoplastic agent may be administered to the same patient and overall effectiveness ascertained by the recited methods.

In accordance with the foregoing, the present invention also contemplates a method for determining the likelihood of survival of a patient afflicted with cancer, following commencement of a cancer treatment on said patient, comprising determining in said patient a change in expression of one or more genes, preferably more than one, corresponding to a gene of Figure 1 or encoding a polypeptide or transcript of such a gene, or genes, compared to expression of said one or more determined genes prior to commencement of said cancer treatment, wherein a change in expression, especially a decrease in expression,

indicates positive and life-extending effects of such treatment, thereby determining the likelihood of survival of said treatment.

In a preferred embodiment, the detected change in expression is a decrease in expression and said determined gene, or genes, may include 2, 3, 5, 10 or more of the genes described herein. Thus, the methods of the invention may be utilized as a means for compiling cancer survival statistics following one or more, possibly combined, treatments for cancer as in keeping with the other methods disclosed herein.

The genes of the amplicons, or regions of interest, identified herein also offer themselves as pharmacodynamic markers (or as pharmacogenetic and/or surrogate markers), such as for patient profiling prior to clinical trials and/or targeted therapies, including combination treatments, resulting from the identification of these genes as valid gene targets for chemotherapy based on the screening procedures of the invention. In one embodiment thereof, the likelihood of success of a cancer treatment with a selected chemotherapeutic agent may be based on the fact that such agent has been determined to have expression modulating activity with one or more genes identified herein, especially where said genes have been identified as showing elevated expression levels in samples from a prospective patient afflicted with cancer. Methods described elsewhere herein for determining cancerous status of a cell may find ready use in such evaluations.

It should be cautioned that, in carrying out the procedures of the present invention as disclosed herein, any reference to particular buffers, media, reagents, cells, culture conditions and the like are not intended to be limiting, but are to be read so as to include all related materials that one of ordinary skill in the art would recognize as being of interest or value in the particular context in which that discussion is presented. For example, it is often possible to substitute one buffer system or culture medium for another and still achieve similar, if not

identical, results. Those of skill in the art will have sufficient knowledge of such systems and methodologies so as to be able, without undue experimentation, to make such substitutions as will optimally serve their purposes in using the methods and procedures disclosed herein.

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The present invention will now be further described by way of the following non-limiting example. In applying the disclosure of the example, it should be kept clearly in mind that other and different embodiments of the methods disclosed according to the present invention will no doubt suggest themselves to those of skill in the relevant art.

10

EXAMPLE

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Cancerous cells that over-express one or more genes mapping to the amplicons disclosed herein, are grown to a density of 10^5 cells/cm² in Leibovitz's L-15 medium supplemented with 2 mM L-glutamine (90%) and 10% fetal bovine serum. The cells are collected after treatment with 0.25% trypsin, 0.02% EDTA at 37°C for 2 to 5 minutes. The trypsinized cells are then diluted with 30 ml growth medium and plated at a density of 50,000 cells per well in a 96 well plate (200 µl/well). The following day, cells are treated with either compound buffer alone, or compound buffer containing a chemical agent to be tested, for 24 hours. The media is then removed, the cells lysed and the RNA recovered using the RNAeasy reagents and protocol obtained from Qiagen. RNA is quantitated and 10 ng of sample in 1 µl are added to 24 µl of Taqman reaction mix containing 1X PCR buffer, RNAsin, reverse transcriptase, nucleoside triphosphates, amplitaq gold, tween 20, glycerol, bovine serum albumin (BSA) and specific PCR primers and probes for a reference gene (18S RNA) and a test gene (Gene X). Reverse transcription is then carried out at 48°C for 30 minutes. The sample is then applied to a Perlin Elmer 7700 sequence detector and heat denatured for 10 minutes at 95°C. Amplification is performed through 40 cycles using 15 seconds

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annealing at 60°C followed by a 60 second extension at 72°C and 30 second denaturation at 95°C. Data files are then captured and the data analyzed with the appropriate baseline windows and thresholds.

- 5 The quantitative difference between the target and reference genes is then calculated and a relative expression value determined for all of the samples used. This procedure is then repeated for each of the target genes in a given signature, or characteristic, set and the relative expression ratios for each pair of genes is determined (i.e., a ratio of expression is determined for each target
- 10 gene versus each of the other genes for which expression is measured, where each gene's absolute expression is determined relative to the reference gene for each compound, or chemical agent, to be screened). The samples are then scored and ranked according to the degree of alteration of the expression profile in the treated samples relative to the control. The overall expression of the set of
- 15 genes relative to the controls, as modulated by one chemical agent relative to another, is also ascertained. Chemical agents having the most effect on a given gene, or set of genes, are considered the most anti-neoplastic.

Table 3 – Amplicon Identification

Amplicon	Transcript Id	Name	Chromosome	bpstart	bpend
A1	ENST00000303924	HAS2 t	8	122582937	122598168
A1	ENSESTT00000046662		8	122585931	122609941
A1	ENSESTT00000046660		8	122608522	122610061
A1	ENSESTT00000046661		8	122640599	122653390
A1	ENST00000328524	NM_014943	8	123738119	123738958
A1	ENSESTT00000047108		8	123750171	123920219
A1	ENST00000314393		8	123750577	123943336
A1	ENSESTT00000047109		8	123789727	123790358
A1	ENSESTT00000047110	NM_024295	8	123921884	123943336
A1	ENSESTT00000047116		8	123983935	123988137
A1	ENSESTT00000047111		8	123983935	124011208
A1	ENSESTT00000047112		8	123983935	124011208
A1	ENST00000259512	NM_145647	8	123984034	124011088
A1	ENSESTT00000047115		8	123984041	123990329
A1	ENSESTT00000047114		8	123987689	123999547
A1	ENSESTT00000047113		8	123991511	124011208
A1	ENSESTT00000065616	Q8TAK7 Q8TAK7	8	124041564	124062478
A1	ENST00000287380		8	124041598	124120767
A1	ENSESTT00000065617		8	124042077	124066211
A1	ENST00000309336		8	124046061	124098030
A1	ENST00000327098	Q86UY5	8	124062489	124073028
A1	ENSESTT00000065618		8	124074181	124088995
A1	ENSESTT00000065619		8	124094878	124098018
A1	ENSESTT00000065620		8	124099026	124120981
A1	ENSESTT00000065621	NM_032899	8	124109587	124120981
A1	ENSESTT00000065622		8	124109691	124120981
A1	ENST00000318462		8	124147875	124177793
A1	ENSESTT00000065624		8	124151533	124162903
A1	ENSESTT00000065623	NM_032899	8	124151533	124177809
A1	ENST00000276699		8	124151685	124176255

TABLE 3 (Continued)

A1	ENSESTT000000065671			8	124188795	124210200
A1	ENST00000276704	NM_032847		8	124188931	124210174
A1	ENSESTT000000065672			8	124189023	124210138
A1	ENSESTT000000065673			8	124195324	124210138
A1	ENSESTT000000065668			8	124218685	124236123
A1	ENST00000297857	ZHX1		8	124222153	124224774
A1	ENSESTT000000065670			8	124224524	124243082
A1	ENSESTT000000065669			8	124224572	124243107
A1	ENST00000309019			8	124284858	124285232
A1	ENST00000287394	NM_014109		8	124289962	124365185
A1	ENSESTT000000065666			8	124294833	124315051
A1	ENSESTT000000065667			8	124305201	124313890
A1	ENSESTT000000065665			8	124315497	124328452
A1	ENST00000329771			8	124369449	124370499
A1	NST00000287387	M_018024		8	124385553	124410848
A1	NSESTT000000065625			8	124385553	124410849
A1	ENSESTT000000065626			8	124385601	124410849
A1	ENSESTT000000065627			8	124385602	124410849
A1	ENSESTT000000065628			8	124385602	124410849
A1	ENST00000287396	FBX032		8	124471947	124510034
A1	ENSESTT000000065664			8	124472004	124500973
A1	ENSESTT000000065662			8	124472004	124510034
A1	ENSESTT000000065663			8	124483080	124510034
A1	ENST00000325995			8	124614600	124621754
A1	ENST00000330051			8	124614651	124621727
A1	ENST00000329589			8	124614654	124621727
A1	ENSESTT000000065661			8	124649681	124657768
A1	ENST00000262219	ANXA13		8	124650068	124681581
A1	ENSESTT000000065659			8	124662584	124706220
A1	ENSESTT000000065660			8	124667216	124706214
A1	ENST00000334705	Q8N6F3		8	124737531	124744075
A1	ENST00000325963	NM_144963		8	124747485	124784276
A1	ENSESTT000000065657			8	124749308	124767066
A1	ENSESTT000000065656			8	124753384	124767066

TABLE 3 (Continued)

A1	ENSESTT00000065658			124777101	124779458
A1	ENST00000297628			124934987	124955009
A1	ENST00000321393	NM_173684	8	124982464	124984850
A1	ENSESTT00000049471		8	125004837	125009297
A1	ENST00000308614	NM_182525	8	125014902	125029621
A1	ENST00000330102		8	125045027	125088508
A1	ENST00000327482		8	125120753	125121402
A1	ENST00000297632	Q8WVK5	8	125280819	125341514
A1	ENSESTT00000049470		8	125282330	125296251
A1	ENST00000328599	NM_017956	8	125419757	125421103
A1	ENSESTT00000049469		8	125441637	125443183
A1	ENSESTT00000049445		8	125443596	125455222
A1	ENST00000303545	RNF139	8	125443702	125456727
A1	ENSESTT00000049468		8	125454689	125456214
A1	ENSESTT00000049466		8	125457337	125491832
A1	ENSESTT00000049464		8	125457337	125507878
A1	ENSESTT00000049463		8	125457337	125507907
A1	ENSESTT00000049461		8	125457337	125507908
A1	ENSESTT00000049458		8	125457337	125507913
A1	ENSESTT00000049467		8	125457339	125472731
A1	ENSESTT00000049462		8	125457339	125507908
A1	ENST00000276692	NM_032026	8	125457339	125507917
A1	ENSESTT00000049465		8	125472748	125507878
A1	ENSESTT00000049459		8	125472748	125507913
A1	ENSESTT00000049460		8	125473099	125507913
A1	ENST00000276689	NDUFB9	8	125507932	125518808
A1	ENSESTT00000049446		8	125507947	125518807
A1	ENST00000325064	MTSS1	8	125519619	125697247
A1	ENSESTT00000049457		8	125521907	125524630
A1	ENSESTT00000049456		8	125525191	125526708
A1	ENSESTT00000049455		8	125526532	125537360
A1	ENSESTT00000049453		8	125553967	125697188
A1	ENSESTT00000049454		8	125668151	125697188
A1	ENST00000319286	NM_152412	8	125942128	125948216

TABLE 3 (Continued)

A1	ENSESTT000000049452		8	
A1	ENST00000265896	SQL	8	125965815 1259670228
A1	ENSESTT00000049447		8	125968234 125990776
A1	ENSESTT00000049451		8	125974452 125989666
A1	ENSESTT00000049448		8	125987460 125991054
A1	ENSESTT00000049450		8	125993091 125997546
A1	ENSESTT00000049449		8	125993091 126001545
A1	ENST00000318410	Y196_HUMAN	8	125993091 126006166
A1	ENSESTT00000052951		8	125993448 126052729
A1	ENSESTT00000052952		8	126001094 126012931
A1	ENSESTT00000052949		8	126001094 126012931
A1	ENSESTT00000052944		8	126001094 126013531
A1	ENSESTT00000052945		8	126001094 126032404
A1	ENSESTT00000052953		8	126001094 126032404
A1	ENSESTT00000052950		8	126001148 126008731
A1	ENSESTT00000052946		8	126006063 126013531
A1	ENSESTT00000052948		8	126006063 126032404
A1	ENSESTT00000052947		8	126012674 126016164
A1	ENSESTT00000052943		8	126013317 126032404
A1	ENSESTT00000052941		8	126036476 126043900
A1	ENSESTT00000052942		8	126045186 126060614
A1	ENST00000287437	NM_173685	8	126051717 126060573
A1	ENSESTT00000052921		8	126060684 126335950
A1	ENSESTT00000052935		8	126060694 126120112
A1	ENSESTT00000052934		8	126060694 126151406
A1	ENSESTT00000052931		8	126060694 126326148
A1	ENSESTT00000052932		8	126060694 126326652
A1	ENSESTT00000052933		8	126060694 126326652
A1	ENSESTT00000052929		8	126060694 126335951
A1	ENSESTT00000052930		8	126060694 126335951
A1	ENSESTT00000052924		8	126060717 126151406
A1	ENSESTT00000052923		8	126060717 126326652
A1	ENSESTT00000052922		8	126060717 126335951
A1	ENSESTT00000052926		8	126060741 126151406

TABLE 3 (Continued)

A1	ENSESTT00000052925				126060741	126326652
A1	ENSESTT00000052927				126150930	126335951
A1	ENSESTT00000052940				126317027	126320247
A1	ENSESTT00000052928				126326536	126335951
A1	ENST00000311922			NM_025195	126399453	126407235
A1	ENSESTT00000052936				126399454	126404869
A1	ENSESTT00000052939				126400000	126402312
A1	ENSESTT00000052937				126402477	126405286
A1	ENST00000311709			Q9P1E1	126552574	126553590
A1	ENSESTT00000052938				126914570	126919779
A1	ENST00000329599				127041420	127043050
A1	ENSESTT00000046663				127466983	127469137
A1	ENSESTT00000046664				127487532	127491189
A2	ENSESTT00000040368				96395910	96638676
A2	ENSESTT00000040357				96493435	96594999
A2	OTTHUMT00013002849			FARP1-006	96493435	96595559
A2	ENSESTT00000040356				96493435	96762294
A2	OTTHUMT00013002844			FARP1-001	96493435	96800024
A2	ENST00000319562			FARP1	96493506	96798828
A2	ENSESTT00000040369				96526040	96526774
A2	OTTHUMT00013002835			bA10G5.1-002	96526040	96527520
A2	OTTHUMT00013002834			bA10G5.1-001	96526425	96527547
A2	ENST00000267291			ZNF183L1	96526535	96527491
A2	OTTHUMT00013002839			bA261P24.2-002	96678973	96683493
A2	OTTHUMT00013002838			bA261P24.2-001	96679135	96683493
A2	ENSESTT00000040358				96715645	96762294
A2	OTTHUMT00013002845			FARP1-002	96734616	96736041
A2	OTTHUMT00013002846			FARP1-003	96754326	96762232
A2	OTTHUMT00013002847			FARP1-004	96759593	96775753
A2	OTTHUMT00013002848			FARP1-005	96781485	96786357
A2	OTTHUMT00013002842			bA111L24.3-001	96785660	96786095
A2	ENSESTT00000040359				96789051	96798697
A2	OTTHUMT00013002862			STK24-005	96800456	96816816
A2	OTTHUMT00013002859			STK24-002	96800456	96872252

TABLE 3 (Continued)

A2 OTTHUMT00013002858	STK24-001	13	96800456	96927118
A2 ENSESTT00000040367		13	96802878	96810698
A2 ENSESTT00000040366		13	96802878	96816333
A2 ENSESTT00000040365		13	96802878	96825181
A2 ENSESTT00000040363		13	96802878	96825239
A2 ENSESTT00000040360		13	96802878	96927359
A2 ENSESTT00000040361		13	96802878	96927359
A2 ENST00000261573	STK24	13	96803428	96872107
A2 OTTHUMT00013002863	STK24-006	13	96805676	96814040
A2 OTTHUMT00013002860	STK24-003	13	96806237	96869522
A2 ENSESTT00000040364		13	96812027	96825239
A2 OTTHUMT00013002861	STK24-004	13	96825116	96928195
A2 OTTHUMT00013002864	STK24-007	13	96855283	96926459
A2 ENSESTT00000040362		13	96855283	96926459
A2 ENST00000313290	Q8WYY0	13	96886851	96887246
A2 OTTHUMT00013002856	bA295B17.5-001	13	96927499	96929085
A2 OTTHUMT00013002872	bA295B17.2-001	13	96960547	96961131
A2 OTTHUMT00013002874	bA295B17.3-001	13	96979939	96980244
A2 OTTHUMT00013002876	bA295B17.4-001	13	96991069	96991494
A2 OTTHUMT00013002878	SLC15A1-001	13	97034056	97102908
A2 ENST00000218552	SLC15A1	13	97034979	97076822
A2 OTTHUMT00013002879	SLC15A1-002	13	97070782	97076822
A2 ENST00000313260	O14496	13	97071712	97076756
A2 OTTHUMT00013002899	bA155N3.2-010	13	97143742	97182048
A2 OTTHUMT00013002890	bA155N3.2-001	13	97143742	97328245
A2 ENSESTT00000040495		13	97144240	97147514
A2 ENSESTT00000040494		13	97144240	97150734
A2 ENST00000301980	DOC9 HUMAN	13	97147367	97436606
A2 OTTHUMT00013002902	bA155N3.2-013	13	97150543	97179710
A2 OTTHUMT00013002901	bA155N3.2-012	13	97157916	97179621
A2 OTTHUMT00013002898	bA155N3.2-009	13	97159564	97197939
A2 ENSESTT00000040492		13	97160444	97203725
A2 ENSESTT00000040493		13	97160510	97182047
A2 OTTHUMT00013002900	bA155N3.2-011	13	97160514	97179751

TABLE 3 (Continued)

A2 OTTHUMT00013002896	bA155N3.2-007	13	97181651	97206239
A2 OTTHUMT00013002895	bA155N3.2-006	13	97182029	97200335
A2 OTTHUMT00013002882	bA155N3.3-001	13	97182339	97184884
A2 OTTHUMT00013002894	bA155N3.2-005	13	97196203	97210731
A2 ENSESTT00000040491		13	97206155	97213319
A2 OTTHUMT00013002897	bA155N3.2-008	13	97210436	97213803
A2 ENSESTT00000040490		13	97210439	97213399
A2 ENSESTT00000040489		13	97217686	97230930
A2 ENSESTT00000040488		13	97234078	97238454
A2 OTTHUMT00013002893	bA155N3.2-004	13	97238390	97238940
A2 ENSESTT00000040487		13	97253255	97271344
A2 ENSESTT00000040486		13	97253255	97276111
A2 OTTHUMT00013002891	bA155N3.2-002	13	97272306	97436880
A2 ENST000000333692		13	97300012	97300702
A2 OTTHUMT00013002884	bA318G11.2-001	13	97300012	97300702
A2 OTTHUMT00013002892	bA155N3.2-003	13	97305690	97436648
A2 ENSESTT00000040485		13	97305748	97436584
A2 OTTHUMT00013002888	bA122A8.3-001	13	97523848	97524745
A2 OTTHUMT00013002886	bA122A8.1-001	13	97540834	97541246
A2 ENST000000325317		13	97541028	97541237
A2 OTTHUMT00013002916	bA87L10.1-001	13	97546697	97550965
A2 OTTHUMT00013002917	bA87L10.1-002	13	97546697	97550965
A2 ENSESTT00000040484		13	97547656	97550936
A2 OTTHUMT00013002939	bA178C10.1-008	13	97551029	97735570
A2 OTTHUMT00013002933	bA178C10.1-002	13	97551029	97735795
A2 ENSESTT00000040442		13	97551031	97736683
A2 ENSESTT00000040438		13	97551081	97718301
A2 ENSESTT00000040437		13	97551081	97736683
A2 ENSESTT00000040439		13	97551109	97664477
A2 OTTHUMT00013002940	bA178C10.1-009	13	97551142	97690820
A2 OTTHUMT00013002942	bA178C10.1-011	13	97551147	97664475
A2 ENSESTT00000040440		13	97551164	97718142
A2 OTTHUMT00013002932	bA178C10.1-001	13	97551164	97736689
A2 OTTHUMT00013002941	bA178C10.1-010	13	97551171	97594879

TABLE 3 (Continued)

A2	ENSESTT00000040441				
A2	ENST00000257320	PHGDHL1	13	97551172	97736683
A2	OTTHUMT00013002920	bA461N23.2-001	13	97551667	97735590
A2	ENST00000325202		13	97565231	97566117
A2	ENST00000325028	PHGDHL1	13	97565627	97566013
A2	OTTHUMT00013002934	bA178C10.1-003	13	97588684	97735590
A2	OTTHUMT00013002928	GPR18-001	13	97594770	97736689
A2	ENST00000245300	GPR18	13	97604987	97611999
A2	ENSESTT00000040482		13	97604995	97608642
A2	OTTHUMT00013002929	GPR18-002	13	97605550	97608614
A2	ENSESTT00000040483		13	97605834	97608629
A2	OTTHUMT00013002922	EBI2-001	13	97606624	97608610
A2	ENST00000301931	EBI2	13	97644794	97657708
A2	ENSESTT00000040481		13	97644799	97657654
A2	OTTHUMT00013002937	bA178C10.1-006	13	97645785	97657708
A2	OTTHUMT00013002935	bA178C10.1-004	13	97658207	97735649
A2	OTTHUMT00013002936	bA178C10.1-005	13	97663038	97736689
A2	OTTHUMT00013002924	bA461N23.5-001	13	97664963	97735953
A2	OTTHUMT00013002926	bA461N23.6-001	13	97668409	97669210
A2	OTTHUMT00013002938	bA178C10.1-007	13	97701675	97702282
A2	OTTHUMT00013002954	bA178C10.2-001	13	97718042	97727821
A2	ENSESTT00000040480		13	97722428	97722941
A2	ENSESTT00000040479		13	97736300	97736679
A2	OTTHUMT00013002956	bA178C10.3-001	13	97756206	97759085
A2	OTTHUMT00013002960	bA214F16.3-001	13	97758036	97759317
A2	OTTHUMT00013002958	bA214F16.2-001	13	97841538	97842752
A2	ENSESTT00000040461		13	97849982	97851307
A2	ENSESTT00000040460		13	97851670	97897704
A2	ENSESTT00000040457		13	97851670	97905912
A2	ENSESTT00000040458		13	97851670	97913646
A2	ENSESTT00000040459		13	97851670	97913646
A2	ENSESTT00000040462		13	97851727	97867945
A2	OTTHUMT00013002963	TM9SF2-002	13	97851729	97897328
A2	OTTHUMT00013002962	TM9SF2-001	13	97851729	97913644

TABLE 3 (Continued)

A2	ENST000000245361	TM9SF2	13	97851862	97913013
A2	OTTHUMT00013002964	TM9SF2-003	13	97864470	97888117
A2	ENSESTT00000040467		13	97886862	97897704
A2	ENSESTT00000040466		13	97886862	97905912
A2	ENSESTT00000040463		13	97886862	97913646
A2	ENSESTT00000040464		13	97886862	97913646
A2	ENSESTT00000040465		13	97886862	97913646
A2	ENSESTT00000040468		13	97890373	97891991
A2	OTTHUMT00013002965		13	97890766	97891991
A2	ENSESTT00000040471	TM9SF2-004	13	97891812	97905912
A2	ENSESTT00000040469		13	97891812	97913646
A2	ENSESTT00000040470		13	97891812	97913646
A2	ENSESTT00000040473		13	97897238	97905912
A2	ENSESTT00000040472		13	97897238	97909646
A2	ENSESTT00000040474		13	97899412	97905912
A2	ENSESTT00000040476		13	97912182	97912840
A2	OTTHUMT00013002970	bA214F16.4-001	13	97927367	97930623
A2	OTTHUMT00013002972	bA214F16.5-001	13	97932961	97933435
A2	ENSESTT00000040478		13	97956924	98215198
A2	ENSESTT00000040477		13	97956924	98221218
A2	OTTHUMT00013002980	CLYBL-001	13	97956924	98242825
A2	ENST000000323941	CLYBL	13	97956937	98242824
A2	OTTHUMT00013002981	CLYBL-002	13	97956945	98241868
A2	OTTHUMT00013002982	CLYBL-003	13	97956951	98242819
A2	OTTHUMT00013002974	bA279D17.1-001	13	98040336	98041226
A2	OTTHUMT00013002976	bA279D17.2-001	13	98076502	98077746
A2	ENSESTT00000040339		13	98076717	98079197
A2	ENSESTT00000040309		13	98123162	98215493
A2	OTTHUMT00013002978	bA134O15.2-001	13	98124280	98125544
A2	OTTHUMT00013002983	CLYBL-004	13	98209116	98215493
A2	OTTHUMT00013002984	CLYBL-005	13	98209116	98215493
A2	ENSESTT00000040310		13	98213298	98242825
A2	ENSESTT00000040311		13	98215060	98242825
A2	ENSESTT00000040312		13	98215103	98242825

TABLE 3 (Continued)

A2	OTTHUMT00013002986	CLYBL-007	13	98216572	98243149
A2	ENSESTT00000040313		13	98216572	98243149
A2	OTTHUMT00013002985	CLYBL-006	13	98221273	98241868
A2	ENSESTT00000040314		13	98235260	98241868
A2	OTTHUMT00013003004	bA12G12.1-001	13	98315452	98322164
A2	ENST000000267294	ZIC5	13	98315452	98322179
A2	OTTHUMT00013002994	ZIC2-001	13	98332294	98337019
A2	ENST000000245295	ZIC2	13	98332320	98337019
A2	ENSESTT00000040315		13	98332599	98335720
A2	OTTHUMT00013002995	ZIC2-002	13	98334544	98335747
A2	ENSESTT00000040316		13	98334544	98335747
A2	OTTHUMT00013002997	ZIC2-004	13	98334944	98335747
A2	ENSESTT00000040317		13	98334944	98335747
A2	OTTHUMT00013002998	ZIC2-005	13	98335044	98335729
A2	ENSESTT00000040318		13	98335044	98335729
A2	ENSESTT00000040319		13	98335196	98335747
A2	OTTHUMT00013002996	ZIC2-003	13	98335749	98336159
A2	ENSESTT00000040320		13	98335749	98336160
A2	OTTHUMT00013003006	bA12G12.3-001	13	98378024	98378429
A2	OTTHUMT00013003008	bA12G12.4-001	13	98412551	98413856
A2	ENSESTT00000040321		13	98439330	98660115
A2	OTTHUMT00013003012	PCCA-001	13	98439338	98880687
A2	ENSESTT00000040322		13	98439361	98660115
A2	ENSESTT00000040323		13	98439372	98660115
A2	ENSESTT00000040324		13	98439395	98660115
A2	ENST000000310787	PCCA	13	98453138	98880421
A2	OTTHUMT00013003017	PCCA-006	13	98499456	98511880
A2	OTTHUMT00013003010	bA340C20.2-001	13	98500772	98501347
A2	ENSESTT00000040325		13	98585858	98660115
A2	OTTHUMT00013003014	PCCA-003	13	98643479	98775986
A2	ENSESTT00000040326		13	98643479	98881032
A2	ENSESTT00000040327		13	98643479	98881032
A2	ENSESTT00000040328		13	98643479	98881032
A2	OTTHUMT00013003013	PCCA-002	13	98656031	98690514

A2	ENSESTT000000040329		13	98660116	98881033
A2	OTTHUMT00013003015	PCCA-004	13	98718727	98880687
A2	OTTHUMT00013003016	PCCA-005	13	98718754	98842072
A2	OTTHUMT00013003028	bA151A6.5-001	13	98814695	98830540
A2	OTTHUMT00013003030	bA151A6.5-003	13	98829802	98831270
A2	OTTHUMT00013003029	bA151A6.5-002	13	98829814	98831412
A2	ENSESTT000000040330		13	98865680	98881032
A2	OTTHUMT00013003018	PCCA-007	13	98865682	98880687
A2	OTTHUMT00013003052	bA151A6.2-001	13	98881802	98934252
A2	ENST000000257302	Q9BT41	13	98881812	98883998
A2	ENSESTT000000040335		13	98882280	98934255
A2	ENSESTT000000040336		13	98882742	98934255
A2	ENSESTT000000040338		13	98882742	98939783
A2	OTTHUMT00013003055	bA151A6.2-004	13	98882750	98883924
A2	OTTHUMT00013003054	bA151A6.2-003	13	98882750	98939783
A2	ENSESTT000000040337		13	98882766	98883908
A2	OTTHUMT00013003056	bA151A6.2-005	13	98882769	98883908
A2	OTTHUMT00013003053	bA151A6.2-002	13	98882769	98938986
A2	OTTHUMT00013003034	bA151A6.4-001	13	98887578	98930372
A2	OTTHUMT00013003026	bA151A6.3-001	13	98890071	98890529
A2	ENST000000245316		13	98890156	98890503
A2	OTTHUMT00013003036	bA113J24.1-001	13	98954189	99025171
A2	OTTHUMT00013003037	bA113J24.1-002	13	98954189	99025171
A2	ENST000000245302	NM_032813	13	98955249	98989063
A2	ENSESTT000000040332		13	98975664	98987865
A2	ENSESTT000000040334		13	98975708	98986863
A2	OTTHUMT00013003038	bA113J24.1-003	13	98975708	98992566
A2	OTTHUMT00013003042	bA113J24.1-007	13	98975790	98986863
A2	ENSESTT000000040333		13	98976035	98987865
A2	OTTHUMT00013003041	bA113J24.1-006	13	98985320	98986887
A2	OTTHUMT00013003039	bA113J24.1-004	13	98992475	99025134
A2	ENSESTT000000040331		13	98992500	99014571
A2	ENSESTT000000040306		13	99006632	99025080
A2	ENSESTT000000040307		13	99013216	99025060

TABLE 3 (Continued)

A2	ENSESTT000000040308	13	99018487	99020990
A2	ENSESTT000000040305	13	99018833	99025134
A2	OTTHUMT00013003043	13	99018834	99025134
A2	OTTHUMT00013003040	13	99018996	99020990
A2	OTTHUMT00013003066	13	99058580	99409639
A2	OTTHUMT00013003062	13	99106806	99107314
A2	ENST00000310576	13	99106812	99107311
A2	ENST00000310558	13	99111961	99112335
A2	OTTHUMT00013003064	13	99291117	99294619
A3	ENSESTT00000026233	5	175066018	175091447
A3	ENST00000231683	5	175091160	175092239
A3	ENST00000274620	5	175204533	175288154
A3	ENST00000274615	5	175288871	175289290
A3	ENST00000334259	5	175289858	175290319
A3	ENST00000265097	5	175367459	175376203
A3	ENST00000333723	5	175414077	175415294
A3	ENST00000331171	5	175414077	175415309
A3	ENST00000330220	5	175414083	175415294
A3	ENST00000253490	5	175492772	175517499
A3	ENSESTT00000026234	5	175492798	175504815
A3	ENSESTT00000026235	5	175514024	175528803
A3	ENSESTT00000026236	5	175531948	175533047
A3	ENSESTT00000026237	5	175532319	175534252
A3	ENSESTT00000026238	5	175646358	175697849
A3	ENSESTT00000026239	5	175646582	175697880
A3	ENST00000303137	5	175671357	175753911
A3	ENSESTT00000026240	5	175702967	175753921
A3	ENST00000330147	5	175714285	175714659
A3	ENST00000332772	5	175721351	175753371
A3	ENST00000298569	5	175753991	175769668
A3	ENSESTT00000026241	5	175755867	175762014
A3	ENSESTT00000026242	5	175758565	175763625
A3	ENST00000310389	5	175773428	175781426
A3	ENSESTT00000026243	5	175773498	175776896

TABLE 3 (Continued)

A3	ENST000000327101	CGB7_HUMAN	5	175791865	175796511
A3	ENSESTT00000026244		5	175795923	175797685
A3	ENST00000274787	NM_138820	5	175796696	175797683
A3	ENSESTT00000026253		5	175800471	175824467
A3	ENST00000310407	CLTB	5	175800698	175824287
A3	ENST00000310418	NM_001834	5	175800698	175824287
A3	ENSESTT00000026254		5	175800716	175824462
A3	ENSESTT00000026246		5	175856279	175904920
A3	ENSESTT00000026245		5	175856279	175915561
A3	ENST00000261942		5	175856301	175917997
A3	ENSESTT00000026247	NM_014613	5	175856353	175861483
A3	ENSESTT00000026248		5	175907924	175914952
A3	ENST00000274811	RNF44	5	175934638	175940396
A3	ENSESTT00000026249		5	175957282	175983069
A3	ENST00000261944	NM_017675	5	175957315	176003596
A3	ENSESTT00000026250		5	175986469	175992466
A3	ENSESTT00000026251		5	175994575	176000693
A3	ENSESTT00000026252		5	175994607	176000693
A3	ENST00000303991	NM_052899	5	176003728	176018054
A3	ENST00000335532	Q96PZ4	5	176004664	176007764
A3	ENST00000310112	SNCB	5	176028134	176037898
A3	ENST00000318682		5	176051522	176053904
A3	ENSESTT00000025931		5	176052504	176054064
A3	ENST00000310032	Q96S98	5	176055391	176066978
A3	ENSESTT00000025934		5	176055433	176064052
A3	ENSESTT00000025933		5	176055433	176065755
A3	ENSESTT00000025932		5	176055433	176065798
A3	ENST00000274797	FBXO23	5	176055504	176060711
A3	ENSESTT00000025937		5	176055510	176064052
A3	ENSESTT00000025936		5	176055510	176065755
A3	ENSESTT00000025935		5	176055510	176065798
A3	ENST00000298564	Q96FV3	5	176055540	176064848
A3	ENSESTT00000025938		5	176059752	176065560
A3	ENST00000318314	Q9H7Q1	5	176062303	176065622

TABLE 3 (Continued)

A3	ENST000000329542	5	176270544	176282322
A3	ENSETT00000025945	5	176276066	176278347
A3	ENST00000261961	5	176281909	176287810
A3	ENSETT00000025946	5	176281927	176285515
A3	ENST00000292432	5	176288997	176304083
A3	ENST00000323774	5	176313206	176377614
A3	ENST00000274827	5	176313206	176390539
A3	ENSETT00000025947	5	176323181	176337765
A3	ENST00000261948	5	176430663	176472523
A3	ENSETT00000025948	5	176430665	176472752
A3	ENSETT00000025949	5	176452251	176458816
A3	ENSETT00000025951	5	176494862	176499035
A3	ENSETT00000025950	5	176494862	176500300
A3	ENSETT00000025952	5	176494947	176500300
A3	ENST00000292408	5	176497522	176505600
A3	ENST00000292410	5	176497527	176505600
A3	ENSETT00000025956	5	176500568	176504578
A3	ENSETT00000025957	5	176501099	176504578
A3	ENSETT00000025958	5	176505115	176506050
A3	ENSETT00000025959	5	176505286	176507234
A3	ENSETT00000025960	5	176541049	176612169
A3	ENST00000298507	5	176543028	176703698
A3	ENSETT00000025961	5	176543093	176545330
A3	ENSETT00000025963	5	176612187	176617686
A3	ENSETT00000025966	5	176619693	176654715
A3	ENST00000312855	5	176673510	176674522
A3	ENSETT00000025977	5	176699894	176702992
A3	ENSETT00000025979	5	176709391	176710012
A3	ENST00000303270	5	176709392	176711227
A3	ENSETT00000025981	5	176711722	176714120
A3	ENSETT00000025980	5	176711722	176714888
A3	ENST00000303204	5	176711736	176714888
A3	ENST00000303182	5	176715058	176719769
A3	ENST00000303165	5	176715151	176719769

TABLE 3 (Continued)

A3	ENST00000303127	LMAN2	5	176739703	176759624
A3	ENSESTT00000025989		5	176765891	176779165
A3	ENST00000303066	RGS14	5	176765973	176780117
A3	ENSESTT00000025990		5	176775288	176776866
A3	ENSESTT00000025991		5	176779454	176780554
A3	ENSESTT00000025992		5	176792400	176794461
A3	ENST00000324417	SIC34A1	5	176792400	176806801
A3	ENSESTT00000025994		5	176804912	176806144
A3	ENST00000319628		5	176808126	176808530
A3	ENST00000253496	F12	5	176810246	176817481
A3	ENSESTT00000025997		5	176834655	176841379
A3	ENSESTT00000026002		5	176834669	176842058
A3	ENSESTT00000026001		5	176834669	176844638
A3	ENSESTT00000025999		5	176834669	176849007
A3	ENSESTT00000026000		5	176834669	176849007
A3	ENSESTT00000025998		5	176834669	176850575
A3	ENST00000230673	GPRK6	5	176834797	176849743
A3	ENSESTT00000026007		5	176841092	176842058
A3	ENSESTT00000026006		5	176841092	176844638
A3	ENSESTT00000026004		5	176841092	176849007
A3	ENSESTT00000026005		5	176841092	176849007
A3	ENSESTT00000026003		5	176841092	176850575
A3	ENSESTT00000025996		5	176842854	176844638
A3	ENSESTT00000025995		5	176842854	176849007
A3	ENSESTT00000026008		5	176842854	176850575
A3	ENST00000323249	NM_030567	5	176854746	176864135
A3	ENSESTT00000026009		5	176854894	176864139
A3	ENST00000309007	DBN1	5	176864466	176881467
A3	ENST00000292385	NM_080881	5	176865288	176880013
A3	ENST00000327525	NM_005451	5	176891199	176905416
A3	ENST00000328562	Q14250	5	176891449	176904318
A3	ENST00000330043	Q9BXB9	5	176891449	176904318
A3	ENSESTT00000026018		5	176891939	177031673
A3	ENSESTT00000026017		5	176897221	177038162

TABLE 3 (Continued)

A3	ENSESTT00000026016		5	176897716	177038203
A3	ENST00000330641	Q96C91	5	176898295	176904318
A3	ENST00000331981	Q9BXB8	5	176898906	176904318
A3	ENST00000312943	Q9BQB3	5	176909731	176916090
A3	ENST00000274826	NM_024872	5	176911807	176917676
A3	ENST00000330503	DDX41	5	176919402	176924661
A3	ENSESTT00000026010		5	176926890	176943796
A3	ENST00000329540	NM_019057	5	176926890	176961637
A3	ENSESTT00000026015		5	176945068	177094067
A3	ENSESTT00000026011		5	176999291	177002623
A3	ENSESTT00000026013		5	176999295	177133284
A3	ENSESTT00000026012		5	176999295	177136090
A3	ENST00000328179	NM_017510	5	176999300	177003200
A3	ENSESTT00000026014		5	176999308	177136081
A3	ENSESTT00000035756		5	177000737	177003218
A3	ENSESTT00000035757		5	177000783	177136346
A3	ENSESTT00000035758		5	177001245	177136718
A3	ENSESTT00000035760		5	177007252	177150698
A3	ENST00000333469	NM_005451	5	177023996	177038192
A3	ENSESTT00000035801		5	177024173	177038191
A3	ENST00000292374	Q14250	5	177024246	177037114
A3	ENST00000331561	Q9BXB9	5	177024246	177037114
A3	ENST00000331867	Q96C91	5	177031099	177037114
A3	ENSESTT00000035800		5	177031469	177038195
A3	ENSESTT00000035802		5	177031684	177037209
A3	ENST00000332347	Q9BXB8	5	177031702	177037114
A3	ENST00000331704		5	177042509	177048868
A3	ENST00000333364	NM_024872	5	177044585	177050454
A3	ENSESTT00000035798		5	177045241	177050448
A3	ENSESTT00000035797		5	177045345	177050987
A3	ENSESTT00000035799		5	177045385	177050435
A3	ENST00000330228	DDX41	5	177052393	177057440
A3	ENSESTT00000035796		5	177060391	177064902
A3	ENSESTT00000035761		5	177060392	177077299

TABLE 3 (Continued)

A3	ENST00000274788	NM_019057	5	177060394	177072665
A3	ENSESTT00000035795		5	177065352	177077000
A3	ENSESTT00000035794		5	177078577	177094163
A3	ENSESTT00000035759		5	177132801	177136335
A3	ENST00000332598	NM_017510	5	177132810	177136711
A3	ENST00000029410	B4GALT7	5	177140813	177150931
A3	ENSESTT00000035762		5	177151883	177159317
A3	ENST00000302857	Q9HAI8	5	177159504	177159962
A3	ENST00000318185		5	177166961	177173303
A3	ENST00000303108	NM_173663	5	177263967	177321278
A3	ENST00000324610		5	177269572	177285570
A3	ENSESTT00000035793		5	177281869	177293899
A3	ENST00000329355	Q8TE30	5	177314834	177318658
A3	ENST00000331417		5	177377030	177378248
A3	ENST00000328082		5	177377030	177378266
A3	ENST00000303154	THOC3	5	177416128	177424868
A3	ENSESTT00000035763		5	177416183	177424870
A3	ENST00000332215	Q9H7L9	5	177511798	177512883
A3	ENST00000308304	PROP1	5	177532838	177536844
A3	ENSESTT00000035764		5	177582334	177589578
A3	ENSESTT00000035765		5	177589720	177594471
A3	ENSESTT00000035766		5	177593021	177594534
A3	ENST00000332649		5	177596176	177596784
A3	ENST00000274605	Y341_HUMAN	5	177654157	177663002
A3	ENSESTT00000035767		5	177660981	177662330
A3	ENST00000313376	YE01_HUMAN	5	177671613	177689151
A3	ENSESTT00000035769		5	177671744	177688239
A3	ENSESTT00000035768		5	177671744	177689170
A3	ENSESTT00000035770		5	177684377	177689170
A3	ENSESTT00000035792		5	177690065	177694571
A3	ENST00000274606	NOLA2	5	177690069	177694497
A3	ENST00000327842	NM_022471	5	177726321	177727901
A3	ENST00000261953	HNRPA8	5	177745109	177751782
A3	ENSESTT00000035781		5	177745132	177746614

TABLE 3 (Continued)

A3	ENSESTT000000035779			5	177745132	177751397
A3	ENSESTT000000035780			5	177745132	177751397
A3	ENSESTT000000035777			5	177745132	177751563
A3	ENSESTT000000035778			5	177745132	177751563
A3	ENSESTT000000035771			5	177745132	177751762
A3	ENSESTT000000035772			5	177745132	177751762
A3	ENSESTT000000035773			5	177745132	177751762
A3	ENSESTT000000035774			5	177745132	177751762
A3	ENSESTT000000035775			5	177745132	177751762
A3	ENSESTT000000035776			5	177745132	177751762
A3	ENST00000307328	NM_004499		5	177745440	177751225
A3	ENSESTT000000035782			5	177746443	177751762
A3	ENSESTT000000035783			5	177747326	177751762
A3	ENSESTT000000035790			5	177749103	177770674
A3	ENSESTT000000035787			5	177749103	177772179
A3	ENST00000308158			5	177749186	177773152
A3	ENSESTT000000035791	NM_032921		5	177749189	177763185
A3	ENSESTT000000035788			5	177749189	177772179
A3	ENSESTT000000035789			5	177749225	177772179
A3	ENSESTT000000035784			5	177750732	177751762
A3	ENSESTT000000035786			5	177779162	177788865
A3	ENSESTT000000035785			5	177891469	177892852
A3	ENSESTT000000025813			5	178143870	178154143
A3	ENST00000316308		CLK4	5	178144219	178171217
A3	ENSESTT000000025820			5	178153016	178159432
A3	ENSESTT000000025818			5	178153016	178167610
A3	ENSESTT000000025819			5	178157479	178160721
A3	ENSESTT000000025816			5	178157835	178167668
A3	ENSESTT000000025814			5	178158920	178171217
A3	ENSESTT000000025815			5	178159118	178167738
A3	ENSESTT000000025817			5	178160838	178167632
A3	ENST00000306591	ZNF354A		5	178252662	178269624
A3	ENSESTT000000025812			5	178267657	178269949
A3	ENSESTT000000025811			5	178307485	178309124

TABLE 3 (Continued)

A3	ENST000000331699				178307800	178322947
A3	ENSESTT00000025799			5	178400555	178423360
A3	ENST000000322434		ZNF354B	5	178400555	178425630
A3	ENSESTT00000025800			5	178401325	178406916
A3	ENST000000320451		ZNF271	5	178472120	178473301
A3	ENST000000320129		ZNF454	5	178481825	178507035
A3	ENSESTT00000025801			5	178483299	178505397
A3	ENST000000319065		Q8NHA9	5	178505697	178533033
A3	ENSESTT00000025802			5	178509517	178530722
A3	ENST000000231188		GRM6	5	178522259	178535546
A3	ENSESTT00000025810			5	178535880	178536808
A3	ENSESTT00000025803			5	178564407	178573529
A3	ENST000000315475		ZNF354C	5	178601202	178621290
A3	ENSESTT00000025809			5	178623365	178624025
A3	ENSESTT00000025808			5	178653824	178654193
A3	ENSESTT00000025806			5	178654498	178665387
A3	ENSESTT00000025807			5	178661813	178663369
A3	ENST000000251582		ADAMTS2	5	178662264	178699481
A3	ENST000000274609		ADAMTS2	5	178691731	178885702
A3	ENSESTT00000025805			5	178692740	178699439
A3	ENSESTT00000025804			5	178917905	178919135
A3	ENSESTT00000035851			5	179043326	179055582
A3	ENSESTT00000035852			5	179090766	179129747
A3	ENSESTT00000035853			5	179099890	179129747
A3	ENSESTT00000035854			5	179099924	179129747
A3	ENST000000319449			5	179100164	179146212
A3	ENSESTT00000035855			5	179100278	179107690
A3	ENSESTT00000035856			5	179107577	179131807
A3	ENSESTT00000035857			5	179133252	179146705
A3	ENST000000319571		NM_030970	5	179140510	179140581
A3	ENST000000258707			5	179148300	179148368
A3	ENSESTT00000035915			5	179150871	179154755
A3	ENSESTT00000035916			5	179150871	179154755
A3	ENSESTT00000035908			5	179150871	179160390

TABLE 3 (Continued)

A3	ENSESTT000000035909	5	179150871	179160399
A3	ENST00000326748	5	179150872	179160359
A3	ENSESTT000000035918	5	179151147	179154344
A3	ENSESTT000000035910	5	179151147	179160390
A3	ENSESTT000000035917	5	179151282	179154755
A3	ENSESTT000000035911	5	179151282	179160390
A3	ENST00000329433	5	179152814	179157705
A3	ENSESTT000000035914	5	179154867	179159858
A3	ENSESTT000000035912	5	179154867	179160364
A3	ENSESTT000000035913	5	179157887	179160362
A3	ENST00000331874	5	179176906	179177448
A3	ENSESTT000000035858	5	179184188	179186866
A3	ENST00000328856	5	179184188	179187649
A3	ENSESTT000000035859	5	179215326	179231463
A3	ENSESTT000000035907	5	179215692	179217634
A3	ENST00000329156	5	179230857	179231354
A3	ENSESTT000000035861	5	179235589	179245048
A3	ENSESTT000000035860	5	179235589	179267552
A3	ENST00000247461	5	179235655	179267584
A3	ENSESTT000000035865	5	179240421	179242025
A3	ENSESTT000000035862	5	179243792	179267552
A3	ENSESTT000000035863	5	179246533	179256391
A3	ENSESTT000000035864	5	179263334	179267552
A3	ENST00000292599	5	179269772	179313948
A3	ENSESTT000000035866	5	179303154	179307853
A3	ENST00000298607	5	179314421	179314996
A3	ENST00000292596	5	179330648	179333175
A3	ENSESTT000000035868	5	179330696	179333148
A3	ENSESTT000000035869	5	179330774	179333175
A3	ENSESTT000000035870	5	179332229	179332994
A3	ENSESTT000000035867	5	179332243	179333174
A3	ENST00000292591	5	179334262	179343246
A3	ENSESTT000000035906	5	179334633	179337617
A3	ENSESTT000000035901	5	179334633	179338133

TABLE 3 (Continued)

A3	ENSESTT00000035902			5	179334633	179338133
A3	ENSESTT00000035895			5	179334633	179343595
A3	ENSESTT00000035903			5	179334876	179338133
A3	ENSESTT00000035904			5	179334883	179338133
A3	ENSESTT00000035900			5	179334883	179342992
A3	ENSESTT00000035896			5	179334883	179343595
A3	ENSESTT00000035897			5	179334883	179343595
A3	ENSESTT00000035905			5	179335007	179338133
A3	ENSESTT00000035898			5	179335007	179343595
A3	ENSESTT00000035899			5	179337988	179343595
A3	ENSESTT00000035871			5	179357567	179374487
A3	ENST00000292588	SQSTM1		5	179357599	179373255
A3	ENSESTT00000035894			5	179370411	179373916
A3	ENST00000292586	NM_016175		5	179373936	179378682
A3	ENSESTT00000035893			5	179373938	179395443
A3	ENST00000328625	NM_016175		5	179374053	179395458
A3	ENST00000261956075163			5	179398735	179444516
A3	ENST00000312107	NM_015043		5	179400110	179407115
A3	ENSESTT00000035892			5	179400203	179402065
A3	ENSESTT00000035891			5	179400212	179402552
A3	ENSESTT00000035890			5	179400359	179404512
A3	ENSESTT00000035889			5	179409551	179415194
A3	ENSESTT00000035887			5	179415747	179444521
A3	ENSESTT00000035888			5	179416330	179444521
A3	ENSESTT00000035886			5	179492143	179507146
A3	ENSESTT00000035885			5	179492144	179514948
A3	ENSESTT00000035884			5	179492144	179549976
A3	ENSESTT00000035881			5	179492144	179608429
A3	ENST00000261947	RNF130		5	179492168	179608763
A3	ENSESTT00000035882			5	179514859	179608429
A3	ENSESTT00000035883			5	179516790	179608429
A3	ENST00000332144			5	179622379	179623665
A3	ENST00000274820	NM_175062		5	179638729	179745830
A3	ENST00000316131			5	179763049	179763664

TABLE 3 (Continued)

A3	ENSESTT000000035880			179772812	179779418
A3	ENSESTT000000035877			179772812	179817172
A3	ENST000000057533	NM_139069	5	179773046	179817223
A3	ENST000000316123	MAPK9	5	179773046	179817223
A3	ENSESTT000000035879		5	179783749	179798444
A3	ENSESTT000000035878		5	179790169	179801503
A3	ENST000000328081		5	179794621	179796637
A3	ENSESTT000000035876		5	179816486	179828537
A3	ENST000000253778	GFPT2	5	179837361	179875263
A3	ENSESTT000000035874		5	179837891	179868310
A3	ENSESTT000000035875		5	179861517	179867483
A3	ENSESTT000000035873		5	179868152	179889985
A3	ENSESTT000000035872		5	179872531	179889987
A3	ENST000000261951	NM_015455	5	180065924	180110862
A3	ENSESTT000000035640		5	180065968	180087268
A3	ENSESTT000000035639		5	180065968	180101184
A3	ENST000000332929	Q8TAJ0	5	180112873	180113151
A3	ENSESTT000000035680		5	180126767	180128147
A3	ENST000000292641	SCGB3A1	5	180126768	180128145
A3	ENSESTT000000035679		5	180139821	180148082
A3	ENST000000261937	FLT4	5	180145626	180186207
A3	ENSESTT000000035678		5	180162667	180166645
A3	ENSESTT000000035677		5	180166890	180186286
A3	ENST000000315712	Q8NHB0	5	180229572	180230422
A3	ENST000000307832	Q8NGV0	5	180275785	180276720
A3	ENSESTT000000035676		5	180327203	180328628
A3	ENSESTT000000035675		5	180327203	180328768
A3	ENST000000333055	MGAT1	5	180327210	180352203
A3	ENSESTT000000035663		5	180327543	180339485
A3	ENST000000307826	Q8NBL8	5	180328296	180329633
A3	ENSESTT000000035662		5	180329112	180339503
A3	ENSESTT000000035659		5	180329155	180345445
A3	ENSESTT000000035661		5	180329332	180340541
A3	ENSESTT000000035665		5	180332068	180352229

TABLE 3 (Continued)

A3	ENSESTT00000035664				180332092	180339429
A3	ENSESTT00000035660				180332309	180345357
A3	ENSESTT00000035658				180344545	180346738
A3	ENSESTT00000035666				180345508	180352200
A3	ENSESTT00000035657				180345511	180346792
A3	ENSESTT00000035673				180384273	180397228
A3	ENSESTT00000035672				180384335	180397947
A3	ENST00000330037			NM_152283	180385559	180387766
A3	ENST00000302108				180386417	180388132
A3	ENSESTT00000035674				180387577	180397213
A3	ENST00000231229			NM_024850	180435821	180487566
A3	ENSESTT00000035641				180435955	180448194
A3	ENSESTT00000035642				180448211	180487568
A3	ENST00000301996			BTNL3	180525529	180543025
A3	ENST00000298708			NM_152547	180582152	180590225
A3	ENSESTT00000035643				180589782	180591964
A3	ENST00000327705			Q8N324	180590141	180598180
A3	ENSESTT00000035644				180592305	180595974
A3	ENST00000328095				1806335802	180637319
A3	ENST00000328767				180650805	180651920
A3	ENST00000329365				180661176	180661966
A3	ENST00000328275			Q8NGV1	180691605	180692552
A3	ENSESTT00000035645				180728586	180731091
A3	ENST00000274773			Q96J89	180731275	180736815
A3	ENSESTT00000035646				180734864	180739766
A3	ENSESTT00000035671				180739916	180741785
A3	ENST00000334421			TRIM7	180740159	180741772
A3	ENST00000312487			Q96Q10	180760899	180772041
A3	ENST00000315073			TRIM41	180760917	180772467
A3	ENSESTT00000035647				180769651	180772470
A3	ENSESTT00000035648				180770071	180772470
A3	ENST00000274821			GNB2L1	180773587	180780586
A3	ENSESTT00000035670				180773591	180776245
A3	ENSESTT00000035649				180783187	180783850

TABLE 3 (Continued)

A3	ENSESTT000000035669				180791085	180796857
A3	ENST00000327725		NM_022907	5	180792443	180792880
A3	ENSESTT000000035668			5	180793051	180796920
A3	ENSESTT000000035667			5	180793672	180796987
A3	ENST00000327767		TRIM52	5	180794077	180797476
A3	ENSESTT000000035652			5	180797875	180800890
A3	ENSESTT000000035651			5	180797875	180800918
A3	ENSESTT000000035650			5	180797875	180800920
A3	ENSESTT000000035653			5	180854088	180864732
A3	ENSESTT000000035654			5	180866068	180886905
A3	ENST00000333864		O4F3_HUMAN	5	180903950	180904888
A3	ENSESTT000000035655			5	180988607	180991662
A3	ENSESTT000000035656			5	180990904	180991624
A3	ENST00000332522			5	181008629	181009085
A4	OTTHUMT00013000706		FLT1-001	13	26672489	26867232
A4	ENST00000282397		FLT1	13	26675304	26867254
A4	ENSESTT000000037419			13	26740528	26762136
A4	ENSESTT000000037420			13	26749569	26762136
A4	ENSESTT000000037421			13	26756741	26762136
A4	ENSESTT000000037417			13	26769173	26810483
A4	ENSESTT000000037415			13	26769173	26839090
A4	ENSESTT000000037418			13	26772654	26810483
A4	ENSESTT000000037416			13	26772654	26839090
A4	ENSESTT000000037414			13	26839038	26867241
A4	OTTHUMT00013000708		bA57H24.1-001	13	26970970	26972189
A4	ENST00000255315		C13orf12	13	27031241	27051059
A4	OTTHUMT00013000710		bA97E23.1-001	13	27031241	27051062
A4	OTTHUMT00013000711		bA97E23.1-002	13	27031241	27051062
A4	ENSESTT000000037329			13	27031251	27051047
A4	ENSESTT000000037330			13	27031270	27034993
A4	ENSESTT000000037328			13	27032876	27050475
A4	ENSESTT000000037342			13	27044487	27050337
A4	OTTHUMT00013000715		bA97E23.2-002	13	27072201	27076694
A4	ENST00000266943		NM_181785	13	27072854	27090734

TABLE 3 (Continued)

A4	OTTHUMT00013000714				
A4	ENSESTT00000037341	bA97E23.2-001	13	27072854	27091107
A4	ENSESTT00000037340		13	27073385	27082982
A4	ENSESTT00000037339		13	27073407	27085276
A4	OTTHUMT00013000718		13	27085474	27091111
A4	ENSESTT00000037338	bA97E23.3-001	13	27094523	27096158
A4	OTTHUMT00013000720		13	27094840	27095270
A4	ENST00000255289	bA161P17.1-001	13	27150695	27151074
A4	OTTHUMT00013000739	Q8N5E2	13	27397451	27875542
A4	OTTHUMT00013000726	bA274A8.1-002	13	27397451	27875892
A4	OTTHUMT00013000725	bA351N4.3-003	13	27611516	27622691
A4	OTTHUMT00013000724	bA351N4.3-002	13	27611760	27622691
A4	ENSESTT00000037331	bA351N4.3-001	13	27611924	27622691
A4	OTTHUMT00013000722		13	27653849	27673230
A4	OTTHUMT00013000738	bA351N4.2-001	13	27678843	27680052
A4	ENSESTT00000037332	bA274A8.1-001	13	27800764	27875873
A4	ENST00000323380		13	27800922	27869445
A4	OTTHUMT00013000730	Q8N642	13	27848687	27859887
A4	ENSESTT00000037337	bA274A8.2-001	13	27849033	27859887
A4	OTTHUMT00013000732		13	27849033	27859887
A4	ENST00000266949	SLC7A1-001	13	27881547	27967721
A4	OTTHUMT00013000733	SLC7A1	13	27886617	27908325
A4	ENSESTT00000037336	SLC7A1-002	13	27889004	27891647
A4	ENSESTT00000037335		13	27889008	27894543
A4	ENSESTT00000037333		13	27894554	27902860
A4	ENSESTT00000037334		13	27907953	27967721
A4	OTTHUMT00013000734		13	27907955	27958929
A4	ENST00000330321	SLC7A1-003	13	27907961	27958929
A4	ENSESTT00000255303	Q8NI69	13	27964863	27965033
A4	ENST00000310635	Q8TE30	13	28014062	28017889
A4	OTTHUMT00013000746	Q9P1E1	13	28017953	28018969
A4	ENST00000241470	UBL3-001	13	28136508	28222821
A4	ENSESTT00000037443		13	28136546	28222715
A4	ENSESTT00000037445		13	28138914	28222162
A4			13	28139131	28144336

TABLE 3 (Continued)

A4	ENSESTT00000037444			13	28139753	28222162
A4	OTTHUMT00013000744		bA90M5.2-001	13	28238096	28238306
A4	OTTHUMT00013000748		bA90M5.4-001	13	28290784	28298788
A4	ENSESTT00000037431			13	28310040	28322630
A4	ENST00000241471		Q9H523	13	28310043	28322495
A4	OTTHUMT00013000742		bA90M5.1-001	13	28310043	28322628
A4	OTTHUMT00013000750		bA629E24.1-001	13	28479753	28481012
A4	OTTHUMT00013000752		bA490N5.1-001	13	28526203	28526723
A4	OTTHUMT00013000754		bA374F3.1-001	13	28580177	28679585
A4	ENSESTT00000037442			13	28580405	28603509
A4	ENST00000261628		NM_032116	13	28580617	28679163
A4	ENSESTT00000037439			13	28627583	28655933
A4	ENSESTT00000037440			13	28627583	28679620
A4	ENSESTT00000037438			13	28627618	28679146
A4	ENSESTT00000037441			13	28627625	28679181
A4	OTTHUMT00013000756		bA374F3.2-001	13	28668272	28668860
A4	ENST00000319015			13	28668284	28668872
A4	OTTHUMT00013000758		bA374F3.3-001	13	28688497	28692033
A4	OTTHUMT00013000761		bA374F3.4-002	13	28713496	28736232
A4	ENSESTT00000037437			13	28713496	28736232
A4	OTTHUMT00013000760		bA374F3.4-001	13	28714620	28737898
A4	OTTHUMT00013000763		bA374F3.4-004	13	28729879	28736287
A4	OTTHUMT00013000762		bA374F3.4-003	13	28729879	28749282
A4	OTTHUMT00013000764		bA374F3.4-005	13	28735317	28745169
A4	OTTHUMT00013000765		bA374F3.4-006	13	28746140	28749101
A4	OTTHUMT00013000772		bA223E19.1-001	13	28800091	28800795
A4	ENST00000302464		UBE2L3	13	28800128	28800592
A4	OTTHUMT00013000792		bA550P23.2-001	13	28818545	28820625
A4	OTTHUMT00013000777		HMGB1-004	13	28831990	28838109
A4	ENST00000255320		HMGB1	13	28831997	28838013
A4	ENSESTT00000037436			13	28833364	28838063
A4	OTTHUMT00013000774		HMGB1-001	13	28833566	28836447
A4	OTTHUMT00013000775		HMGB1-002	13	28833621	28836447
A4	OTTHUMT00013000776		HMGB1-003	13	28833633	28838075

TABLE 3 (Continued)

A4	ENSESTT00000037435	13	28834423	28989499
A4	OTTHUMT00013000781	13	28834483	28835401
A4	OTTHUMT00013000782	13	28834675	28836526
A4	ENSESTT00000037434	13	28834713	28989872
A4	OTTHUMT00013000779	13	28834750	28836793
A4	OTTHUMT00013000778	13	28835348	28838651
A4	OTTHUMT00013000780	13	28835448	28838051
A4	OTTHUMT00013000794	13	28911734	28915598
A4	OTTHUMT00013000796	13	28913780	28915034
A4	OTTHUMT00013000798	13	28925807	28926830
A4	OTTHUMT00013000801	13	28989830	29003611
A4	ENST00000255304	13	28989920	29031493
A4	OTTHUMT00013000800	13	28989920	29031686
A4	ENSESTT00000037432	13	28990053	29003351
A4	ENSESTT00000037433	13	28990087	29003261
A4	ENSESTT00000042385	13	29014843	29031687
A4	OTTHUMT00013000806	13	29107645	29136556
A4	ENST00000255317	13	29107669	29136562
A4	OTTHUMT00013000807	13	29114473	29116533
A4	OTTHUMT00013000804	13	29175343	29182782
A4	ENSESTT00000042392	13	29175343	29183024
A4	ENSESTT00000042393	13	29202772	29255532
A4	OTTHUMT00013000810	13	29254688	29255532
A4	ENSESTT00000042394	13	29254696	29255532
A4	ENST00000218987	13	29278328	29297708
A4	OTTHUMT00013000812	13	29278328	29297709
A4	OTTHUMT00013000813	13	29278843	29296586
A4	ENSESTT00000042395	13	29289536	29297968
A4	ENSESTT00000042471	13	29302805	29303625
A4	OTTHUMT00013000816	13	29302814	29303619
A4	OTTHUMT00013000818	13	29303638	29304723
A4	OTTHUMT00013000819	13	29303766	29304337
A4	OTTHUMT00013000823	13	29304840	29305327
A4	OTTHUMT00013000822	13	29304840	29347639

TABLE 3 (Continued)

A4	ENST000000320096	NM_152325	13	29304853	29347044
A4	ENSESTT00000042396		13	29329009	29347274
A4	OTTHUMT00013000826	bA252M21.6-001	13	29345426	29349760
A4	OTTHUMT00013000828	bA252M21.7-001	13	29367299	29368275
A4	OTTHUMT00013000830	bA173P16.1-001	13	29471238	29487836
A4	ENSESTT00000042440		13	29508750	29511044
A4	ENSESTT00000042437		13	29508750	29511319
A4	ENSESTT00000042416		13	29508750	29520230
A4	ENSESTT00000042418		13	29508750	29520230
A4	ENSESTT00000042420		13	29508750	29520230
A4	ENSESTT00000042421		13	29508750	29520230
A4	ENSESTT00000042403		13	29508750	29520554
A4	ENSESTT00000042405		13	29508750	29520554
A4	ENSESTT00000042406		13	29508750	29520554
A4	ENSESTT00000042407		13	29508750	29520554
A4	ENSESTT00000042438		13	29508750	29520623
A4	ENSESTT00000042443		13	29508750	29520623
A4	ENSESTT00000042444		13	29508750	29520623
A4	ENSESTT00000042445		13	29508750	29520623
A4	ENSESTT00000042402		13	29508750	29523880
A4	ENSESTT00000042404		13	29508750	29523880
A4	ENSESTT00000042413		13	29508750	29523880
A4	ENSESTT00000042414		13	29508750	29523880
A4	ENSESTT00000042442		13	29508762	29509663
A4	OTTHUMT00013000835	bA173P16.2-004	13	29508762	29510705
A4	OTTHUMT00013000832	bA173P16.2-001	13	29508765	29534064
A4	OTTHUMT00013000833	bA173P16.2-002	13	29508765	29534064
A4	OTTHUMT00013000834	bA173P16.2-003	13	29508765	29534064
A4	ENSESTT00000042441		13	29509002	29511044
A4	ENSESTT00000042422		13	29509002	29520230
A4	ENSESTT00000042423		13	29509002	29520230
A4	ENSESTT00000042408		13	29509002	29520554
A4	ENSESTT00000042409		13	29509002	29520554
A4	ENSESTT00000042446		13	29509002	29520623

TABLE 3 (Continued)

A4	ENSESTT00000042447	13	29509002	29520623
A4	ENSESTT00000042415	13	29509002	29523880
A4	ENSESTT00000042417	13	29509002	29523880
A4	ENST00000239887	13	29509455	29533719
A4	ENST00000320027	13	29509455	29533719
A4	ENSESTT00000042439	13	29509641	29511319
A4	ENSESTT00000042424	13	29510418	29520230
A4	ENSESTT00000042410	13	29510418	29520554
A4	ENSESTT00000042448	13	29510418	29520623
A4	ENSESTT00000042419	13	29510418	29523880
A4	ENSESTT00000042425	13	29510574	29520230
A4	ENSESTT00000042432	13	29510574	29522321
A4	ENSESTT00000042428	13	29510574	29523880
A4	OTTHUMT00013000836	13	29510676	29511319
A4	ENSESTT00000042426	13	29510913	29520230
A4	ENSESTT00000042427	13	29510913	29520230
A4	ENSESTT00000042411	13	29510913	29520554
A4	ENSESTT00000042449	13	29510913	29520623
A4	ENSESTT00000042433	13	29510913	29522321
A4	ENSESTT00000042429	13	29510913	29523880
A4	ENSESTT00000042430	13	29510913	29523880
A4	ENSESTT00000042436	13	29515928	29520230
A4	ENSESTT00000042412	13	29515928	29520554
A4	ENSESTT00000042401	13	29515928	29520623
A4	ENSESTT00000042434	13	29515928	29522321
A4	ENSESTT00000042431	13	29515928	29523880
A4	ENSESTT00000042435	13	29520095	29522321
A4	ENSESTT00000042400	13	29527641	29534068
A4	ENSESTT00000042399	13	29527667	29534489
A4	ENSESTT00000042397	13	29572112	29633161
A4	OTTHUMT00013000842	13	29572112	29704409
A4	ENSESTT00000042398	13	29632535	29656892
A4	OTTHUMT00013000843	13	29632544	29656892
A4	ENST00000310319	13	29675357	29676373

HSPH1
HSPH1

bA173P16.2-005

bA367C11.1-001

bA367C11.1-002
Q9P1E1

TABLE 3 (Continued)

A4	OTTHUMT00013000846	bA367C11.2-001	13	29683426	29685058
A4	ENST00000298386	LGR8 HUMAN	13	30111674	30175009
A4	OTTHUMT00013000848	bA432E15.1-001	13	30111679	30175009
A4	ENSESTT00000037457		13	30218905	30325581
A4	ENSESTT00000037458		13	30218972	30324856
A4	OTTHUMT00013000850	Em:AC002525.1-001	13	30324632	30325609
A4	ENST00000306722		13	30324717	30325498
A4	OTTHUMT00013000852	bA207N4.2-001	13	30397451	30403776
A4	OTTHUMT00013000854	bA37E23.1-001	13	30403437	30668794
A4	ENSESTT00000037459		13	30403557	30451064
A4	OTTHUMT00013000855	bA37E23.1-002	13	30403692	30410757
A4	ENSESTT00000037460		13	30403692	30410757
A4	ENST00000318671	Q9H551	13	30403933	30474153
A4	OTTHUMT00013000856	bA37E23.1-003	13	30433001	30489607
A4	ENST00000267067	Q99993	13	30457981	30529546
A4	ENSESTT00000037461		13	30533334	30543341
A4	ENSESTT00000037462		13	30545609	30551036
A4	ENST00000261575	NM_023037	13	30574067	30667597
A4	ENSESTT00000037446		13	30603413	30668738
A4	ENSESTT00000037447		13	30606797	30609886
A4	OTTHUMT00013000858	bA37E23.1-005	13	30621676	30650976
A4	ENSESTT00000037448		13	30621802	30637786
A4	ENSESTT00000037449		13	30626285	30634614
A4	ENSESTT00000037450		13	30626290	30637786
A4	ENSESTT00000037453		13	30626512	30650976
A4	ENSESTT00000037454		13	30626512	30650976
A4	ENSESTT00000037452		13	30626512	30661841
A4	ENSESTT00000037451		13	30626512	30661882
A4	OTTHUMT00013000859	bA37E23.1-006	13	30634526	30661776
A4	ENSESTT00000037455		13	30659981	30668767
A4	OTTHUMT00013000857	bA37E23.1-004	13	30659988	30667640
A4	ENSESTT00000037456		13	30666374	30668767
A4	OTTHUMT00013000870	bA37E23.5-001	13	30670291	30670849
A4	OTTHUMT00013000868	bA37E23.4-001	13	30680855	30683420

TABLE 3 (Continued)

A4	ENSESTT00000037463	13	30687607	30698292
A4	OTTHUMT00013003674	13	30687617	30771806
A4	ENSESTT00000037464	13	30687640	30698728
A4	ENST00000267071	13	30688598	30770907
A4	ENSESTT00000037465	13	30735410	30752226
A4	ENSESTT00000037466	13	30748806	30752226
A4	OTTHUMT00013003675	13	30751977	30770409
A4	OTTHUMT00013000866	13	30756797	30758245
A4	OTTHUMT00013000872	13	30773713	30800270
A4	OTTHUMT00013000873	13	30773810	30800270
A4	OTTHUMT00013000874	13	30773814	30788840
A4	OTTHUMT00013000875	13	30773954	30800151
A4	ENSESTT00000037479	13	30774634	30800259
A4	ENSESTT00000037481	13	30774983	30779922
A4	ENST00000267044	13	30775079	30779464
A4	ENST00000306588	13	30775281	30800219
A4	OTTHUMT00013000876	13	30775816	30800151
A4	OTTHUMT00013000878	13	30778590	30800143
A4	ENST00000332066	13	30779092	30779373
A4	OTTHUMT00013000877	13	30797059	30800151
A4	OTTHUMT00013000879	13	30797495	30805091
A4	ENSESTT00000037480	13	30797642	30800151
A4	OTTHUMT00013000888	13	30804554	30818619
A4	ENSESTT00000037478	13	30804625	30814984
A4	ENST00000267052	13	30804924	30818554
A4	ENSESTT00000037476	13	30815994	30910936
A4	OTTHUMT00013000896	13	30816130	30816268
A4	OTTHUMT00013000890	13	30849411	30850978
A4	OTTHUMT00013000892	13	30852732	30890057
A4	OTTHUMT00013000894	13	30864436	30870629
A4	ENST00000267068	13	30889031	30910919
A4	OTTHUMT00013000897	13	30889031	30910919
A4	ENSESTT00000037473	13	30889508	30894409
A4	ENSESTT00000037471	13	30889508	30908302

TABLE 3 (Continued)

A4	ENSESTT00000037474				
A4	OTTHUMT00013000898	bA11K16.4-003	13	30889684	30893770
A4	ENSESTT00000037472		13	30889998	30908006
A4	ENSESTT00000037467		13	30899013	30908193
A4	ENSESTT00000037477		13	30907172	30908872
A4	ENSESTT00000037470		13	30908368	30910932
A4	OTTHUMT00013000899	bA11K16.4-004	13	30908503	30910929
A4	ENSESTT00000037475		13	30908564	30910962
A4	ENSESTT00000037468		13	30908708	30910962
A4	OTTHUMT00013000906		13	30958592	31031343
A4	ENST00000261578	49J10.1-006	13	30958624	31118238
A4	OTTHUMT00013000907	APRIN	13	30958642	31145465
A4	OTTHUMT00013000908	49J10.1-007	13	30958685	31118238
A4	ENSESTT00000037469	49J10.1-008	13	30958688	31024465
A4	OTTHUMT00013000904		13	30958704	31021469
A4	ENSESTT00000037369	49J10.1-002	13	30958706	31022754
A4	ENSESTT00000037370		13	31071946	31113272
A4	OTTHUMT00013000905		13	31073121	31113272
A4	ENSESTT00000037371	49J10.1-004	13	31073219	31079179
A4	OTTHUMT00013000915	bA380B4.1-002	13	31073219	31079179
A4	OTTHUMT00013000914	bA380B4.1-001	13	31125470	31148043
A4	ENSESTT00000037372		13	31125470	31150157
A4	OTTHUMT00013000918	bA380B4.2-001	13	31130670	31143217
A4	OTTHUMT00013000920	bA218A18.1-001	13	31249569	31283788
A4	ENSESTT00000037388		13	31325521	31326539
A4	OTTHUMT00013003671	KL-002	13	31385588	31388081
A4	ENST00000255481 KL		13	31388571	31436440
A4	OTTHUMT00013003670	KL-001	13	31388571	31438279
A4	OTTHUMT00013000926	bA81F11.1-001	13	31388571	31438282
A4	ENSESTT00000037373		13	31475278	31578143
A4	ENSESTT00000037386		13	31476827	31478958
A4	ENST00000255486	STARD13	13	31477004	31484030
A4	ENSESTT00000037387		13	31477730	31558159
A4	OTTHUMT00013000930	bA81F11.1-005	13	31482009	31484030
			13	31483921	31485330

TABLE 3 (Continued)

A4	OTTHUMT00013000924	bA81F11.4-001	13	31494713	31495797
A4	ENSESTT0000037374		13	31494713	31495802
A4	OTTHUMT00013000928	bA81F11.1-003	13	31501869	31558216
A4	ENSESTT0000037379		13	31502223	31578161
A4	ENSESTT0000037378		13	31502350	31722654
A4	OTTHUMT00013000929	bA81F11.1-004	13	31510566	31539759
A4	ENSESTT0000037380		13	31510566	31539761
A4	OTTHUMT00013000927	bA81F11.1-002	13	31527573	31657844
A4	OTTHUMT00013000922	bA81F11.2-001	13	31530724	31536546
A4	ENSESTT0000037385		13	31530724	31536546
A4	ENSESTT0000037384		13	31547153	31657728
A4	OTTHUMT00013000936	bA81F11.3-001	13	31562078	31657873
A4	ENSESTT0000037383		13	31647964	31657873
A4	OTTHUMT00013000938	bA363P13.1-001	13	31649690	31653471
A4	ENSESTT0000037375		13	31649690	31653473
A4	ENSESTT0000037381		13	31705816	31720135
A4	OTTHUMT00013000940	bA141M1.1-001	13	31705983	31707403
A4	ENSESTT0000037382		13	31705983	31707414
A4	OTTHUMT00013000942	bA141M1.4-001	13	31720744	31722761
A4	ENSESTT0000037377		13	31721064	31722742
A4	OTTHUMT00013000946	bA141M1.3-001	13	31727343	32048905
A4	OTTHUMT00013000948	bA141M1.3-003	13	31883467	31896459
A4	ENSESTT0000037376		13	31883467	31896459
A4	OTTHUMT00013000944	bA37L2.1-001	13	31983104	31983659
A4	OTTHUMT00013000947	bA141M1.3-002	13	32026796	32048861
A4	OTTHUMT00013000954	bA179A7.2-001	13	32029573	32032065
A4	OTTHUMT00013000952	RFC3-001	13	32190203	32209633
A4	ENSESTT0000039806		13	32190245	32209644
A4	ENSESTT0000039805		13	32190245	32338382
A4	ENSESTT0000039804		13	32190245	32338695
A4	ENST00000255484	RFC3	13	32190316	32208432
A4	OTTHUMT00013000956	bA218I21.1-001	13	32454566	32455447
A4	OTTHUMT00013000958	bA266E6.1-001	13	32807587	33012822
A4	ENSESTT0000039807		13	32807587	33012822

TABLE 3 (Continued)

A4	OTTHUMT00013000959				
A4	ENSESTT00000039808	bA266E6.1-002	13	32905983	32906487
A4	OTTHUMT00013000962	bA266E6.2-001	13	32905983	32906487
A4	OTTHUMT00013000972	NBEA-001	13	32946341	32946803
A4	ENST00000310336	NBEA	13	33314456	34044873
A5	ENSESTT00000038767		7	33314958	34043128
A5	ENSESTT00000038766		7	101019421	101400637
A5	ENSESTT00000038765		7	101019421	101485396
A5	OTTHUMT00007006261	CUTL1	7	101019421	101487431
A5	ENST00000292538	CUTL1	7	101019473	101487362
A5	ENST00000292535	CUTL1	7	101019492	101486563
A5	ENSESTT00000038777		7	101021063	101453321
A5	ENSESTT00000038768		7	101081303	101082106
A5	ENSESTT00000038771		7	101119629	101231763
A5	ENSESTT00000038770		7	101273798	101400637
A5	ENSESTT00000038769		7	101273798	101485396
A5	ENSESTT00000038772		7	101273798	101487431
A5	OTTHUMT00007006649	mbhmh_gw729093. 100322718.100376677 .3.8e-	7	101362019	101397352
A5	ENSESTT00000038778		7	101400541	101405344
A5	OTTHUMT00007007070	mbhmh_H_RG313A17 _F193468.fgenes2.2 Hs_7_c1557	7	101400655	101404987
A5	OTTHUMT00007007797		7	101429721	101452503
A5	ENSESTT00000038775		7	101468176	101468461
A5	ENSESTT00000038774		7	101477627	101484340
A5	ENSESTT00000038773		7	101477627	101485396
A5	ENSESTT00000038776		7	101477627	101487431
A5	ENSESTT00000038779		7	101486181	101487431
A5	OTTHUMT00007006892	mbax_h_100048510 _100795952_m_ _134702119_I_ NM_020979	7	101488534	101512349
A5	ENST00000306803		7	101498891	101522278
A5	ENSESTT00000038780		7	101504016	101522278
			7	101517823	101522351

TABLE 3 (Continued)

A5	OTTHUMT000007007831	Hs_7_c1560	7	101527852	101530126
A5	OTTHUMT000007007835	Hs_7_c1561	7	101537904	101547742
A5	OTTHUMT000007006950	mbhmh_ts.101.008.a	7	101547738	101553959
A5	ENST00000331921		7	101548723	101555503
A5	ENST00000332533		7	101551346	101554016
A5	ENSESTT00000038782		7	101564512	101576836
A5	ENSESTT00000038781		7	101564512	101581544
A5	ENSESTT00000038783		7	101564790	101581544
A5	OTTHUMT000007007838	Hs_7_c1564	7	101564796	101586300
A5	ENSESTT00000038785		7	101566265	101576836
A5	ENSESTT00000038784		7	101566265	101581544
A5	ENST00000329536		7	101576257	101576794
A5	OTTHUMT000007007842	Hs_7_c1565	7	101581374	101583647
A5	ENST00000262936	PRKRIP1	7	101597276	101627593
A5	ENSESTT00000038786		7	101597306	101626253
A5	ENST00000292563	C7orf19	7	101634483	101649629
A5	OTTHUMT000007006331	CBCIP2	7	101634489	101649629
A5	ENSESTT00000038787		7	101634512	101647966
A5	ENSESTT00000038788		7	101637128	101647966
A5	OTTHUMT000007006536	FLJ20013	7	101657151	101665754
A5	ENST00000292566	NM_017621	7	101657178	101665774
A5	ENSESTT00000038837		7	101658436	101665789
A5	OTTHUMT000007006660	mbhmh_nh_h_100048510			
		_100795952_m_1347021	7	101665582	101673962
		_NM_152892	7	101665847	101673962
A5	ENST00000292616		7	101665866	101669568
A5	ENSESTT00000038789		7	101670502	101675765
A5	ENSESTT00000038790		7	101670502	101675765
A5	ENSESTT00000038791		7	101674085	101770880
A5	ENSESTT00000038802		7	101674197	101679846
A5	ENSESTT00000038803		7	101674370	101679823
A5	OTTHUMT000007006868	POLR2J	7	101674370	101869945
A5	ENSESTT00000038807		7	101674562	101679773
A5	ENST00000292614	POLR2J	7	101675112	101679773
A5	ENST00000326391		7		

TABLE 3 (Continued)

A5	ENSESTT00000038806		7	101675384	101872600
A5	OTTHUMT00007006642	HSPC047.1	7	101680646	101681562
A5	ENSESTT00000038818		7	101684052	101884280
A5	ENSESTT00000038815		7	101684387	101887718
A5	ENSESTT00000038813		7	101684414	101889940
A5	ENST000000306682	NM_006989	7	101684505	101718623
A5	OTTHUMT00007006603	mbhmh_gw5901958 .100606911 .100642795.1.6e7			
A5	ENSESTT00000038814		7	101684508	101718623
A5	ENSESTT00000038819		7	101685947	101889940
A5	ENSESTT00000038831		7	101685981	101793412
A5	ENSESTT00000038792		7	101691969	101794030
A5	ENSESTT00000038793		7	101694343	101794786
A5	ENSESTT00000038795		7	101694383	101794951
A5	ENSESTT00000038829		7	101694776	101695508
A5	ENSESTT00000038828		7	101697050	101702049
A5	ENSESTT00000038826		7	101697479	101707749
A5	ENSESTT00000038821		7	101697813	101801370
A5	ENSESTT00000038822		7	101710309	101817727
A5	ENSESTT00000038820		7	101713854	101813329
A5	ENSESTT00000038810		7	101724207	101823338
A5	ENSESTT00000038808		7	101739241	101839744
A5	ENSESTT00000038809		7	101739246	101866719
A5	ENST00000297278		7	101739290	101866719
A5	ENSESTT00000038804		7	101739330	101744501
A5	OTTHUMT00007007119	POLR2J2	7	101742184	101872640
A5	ENST00000319405		7	101742452	101773584
A5	OTTHUMT00007006426	mbhmh_H_RG158017 _F218045.fgenes2.3 Hs_7_c5034	7	101755410	101861246
A5	OTTHUMT00007008004		7	101757047	101763166
A5	ENSESTT00000038796		7	101763162	101768147
A5	ENSESTT00000038811		7	101766314	101869984
A5	ENST00000323465	NM_145325	7	101768689	101773566
				101768862	101773534

TABLE 3 (Continued)

A5	OTTHUMT00007006643	HSPC047.2	7	101774402	101780795
A5	ENSESTT00000038817		7	101783624	101884523
A5	ENSESTT00000038816		7	101783749	101884558
A5	ENST00000262940	MSG5_HUMAN	7	101783754	101817670
A5	OTTHUMT00007006268	CAPRI	7	101783754	101817670
A5	ENSESTT00000038797		7	101793580	101890696
A5	ENSESTT00000038794		7	101794005	101794745
A5	ENSESTT00000038827		7	101796283	101801278
A5	ENSESTT00000038825		7	101796715	101806980
A5	OTTHUMT00007006314	mbhmh_gw12844788. 100760681.100765918 .2.7			
A5	OTTHUMT00007007045	mbhmh_ts.101.018.a	7	101838509	101841746
A5	ENST000000312297		7	101853330	101862231
A5	OTTHUMT00007008008	Hs_7_c5035	7	101855961	101858620
A5	ENSESTT00000038805		7	101862227	101867194
A5	OTTHUMT00007006195	mbhmh_h_100048510 100795952_m_ 134702119_	7	101867736	101872630
A5	OTTHUMT00007007904	Hs_7_c1585	7	101867909	101872582
A5	OTTHUMT00007007905	Hs_7_c1586	7	101879466	101879837
A5	ENST000000329942	Q96C79	7	101882816	101891453
A5	ENSESTT00000038798		7	101889904	101890065
A5	OTTHUMT00007007907	Hs_7_c1587	7	101889915	101890655
A5	ENSESTT00000038812		7	101904290	101904451
A5	ENSESTT00000038799		7	101904439	101949674
A5	ENSESTT00000038800		7	101949942	101962382
A5	ENST00000314526	NM_147194	7	101949949	101988333
A5	ENST00000314157		7	101950186	101950617
A5	OTTHUMT00007007908	Hs_7_c1588	7	101956102	101956916
A5	OTTHUMT00007006547	mbhmh_h_100815628 101274767_m_ 19823891_2_	7	101956129	101956907
A5	ENSESTT00000038801		7	101960818	101982855
			7	101988311	102009612

TABLE 3 (Continued)

A5	OTTHUMT00007007909	Hs_7_c1589	7	102000041	102007712
A5	OTTHUMT00007006171	MGC21636	7	102014212	102174163
A5	ENST00000313221	NM_145032	7	102014214	102230396
A5	ENST00000313196	Q8N1P0	7	102014320	102228534
A5	ENSESTT00000040069		7	102113941	102146070
A5	ENST00000249377	LRRC17	7	102113983	102145927
A5	OTTHUMT00007006209	P37NB	7	102113983	102145927
A5	ENSESTT00000040175		7	102127277	102174180
A5	ENSESTT00000040070		7	102140423	102146070
A5	ENST00000335370	Q86UQ8	7	102174535	102177193
A5	ENSESTT00000040174		7	102226175	102275821
A5	OTTHUMT00007007936	Hs_7_c1593	7	102270250	102270369
A5	ENSESTT00000040076		7	102276116	102288294
A5	ENSESTT00000040075		7	102276116	102299941
A5	OTTHUMT00007006404	MGC3195	7	102276139	102299655
A5	ENST00000323716	NM_031905	7	102276251	102299531
A5	ENST00000306450	Q8IZC1	7	102276251	102299531
A5	ENST00000323735	Q8IZC2	7	102276251	102299531
A5	ENSESTT00000040171		7	102303502	102321207
A5	ENSESTT00000040170		7	102303502	102329508
A5	ENSESTT00000040173		7	102304193	102316319
A5	ENSESTT00000040172		7	102304334	102320671
A5	OTTHUMT00007006927	mbhmh_h_100815628			
		_101274767_m			
		_19823891_2			
A5	ENST00000292634		7	102307967	102331431
A5	OTTHUMT00007007937	Hs_7_c1596	7	102316038	102321120
A5	ENST00000327597		7	102342330	102342917
A5	ENST00000333351		7	102342504	102342917
A5	OTTHUMT00007007938	Hs_7_c1597	7	102353043	102353323
A5	ENSESTT00000040163		7	102353043	102353323
A5	ENSESTT00000040164		7	102376120	102396451
A5	ENSESTT00000040161		7	102376238	102386518
A5	OTTHUMT00007007939	Hs_7_c1598	7	102376238	102411289
			7	102376305	102481130

TABLE 3 (Continued)

A5	ENST000000306389	NM_182634	7	102398168	102444053
A5	ENSESTT00000040162		7	102398194	102399966
A5	ENSESTT00000040160		7	102399052	102411365
A5	ENST00000257741	S100A11P	7	102462978	102463286
A5	OTTHUMT00007006524	S100A14	7	102462978	102463286
A5	ENSESTT00000040158		7	102478355	102481237
A5	ENST00000320297	Q8N7T0	7	102478580	102481130
A5	ENSESTT00000040082		7	102498413	102511457
A5	OTTHUMT00007006222	PMPCB	7	102498424	102513390
A5	ENST00000249269	PMPCB	7	102498438	102513249
A5	ENSESTT00000040083		7	102504818	102511457
A5	ENSESTT00000040095		7	102513072	102513736
A5	OTTHUMT00007006445	mpp11	7	102513452	102545644
A5	ENSESTT00000040149		7	102513455	102520658
A5	ENSESTT00000040147		7	102513455	102520824
A5	ENSESTT00000040145		7	102513455	102528369
A5	ENSESTT00000040141		7	102513455	102528679
A5	ENSESTT00000040142		7	102513455	102528679
A5	ENSESTT00000040133		7	102513455	102545745
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A5	ENSESTT00000040135		7	102513455	102545745
A5	ENSESTT00000040136		7	102513455	102545745
A5	ENSESTT00000040129		7	102513455	102545791
A5	ENSESTT00000040130		7	102513455	102545791
A5	ENSESTT00000040151		7	102513480	102514323
A5	ENSESTT00000040150		7	102513495	102517068
A5	ENST00000249270	ZRF1	7	102513500	102545600
A5	ENST00000222539	Q9BVX1	7	102513547	102523062
A5	ENSESTT00000040148		7	102516740	102520824
A5	ENSESTT00000040146		7	102517478	102528369
A5	ENSESTT00000040143		7	102517478	102528679
A5	ENSESTT00000040144		7	102517478	102528679
A5	ENSESTT00000040137		7	102517478	102545745
A5	ENSESTT00000040138		7	102517478	102545745

TABLE 3 (Continued)

A5	ENSESTT000000040139		7	102517478	102545745
A5	ENSESTT000000040140		7	102517478	102545745
A5	ENSESTT000000040131		7	102517478	102545791
A5	ENSESTT000000040132		7	102517478	102545791
A5	ENSESTT000000040096		7	102548636	102563744
A5	ENSESTT000000040097		7	102548652	102569791
A5	ENSESTT000000040098		7	102548654	102569791
A5	OTTHUMT00007006130	PSMC2	7	102548658	102569187
A5	ENSESTT000000040100		7	102548673	102565286
A5	ENSESTT000000040099		7	102548673	102569791
A5	ENSESTT000000040101		7	102548684	102565286
A5	ENST00000292644	PSMC2	7	102548690	102569032
A5	OTTHUMT00007007711	Hs_7_c1604	7	102549579	102549746
A5	ENSESTT000000040103		7	102556671	102565286
A5	ENSESTT000000040104		7	102556671	102565286
A5	ENSESTT000000040102		7	102556671	102569791
A5	ENSESTT000000040106		7	102562512	102565286
A5	ENSESTT000000040105		7	102562512	102569791
A5	OTTHUMT00007007089	mbhmh_h_101446068			
		_102346067_m			
		_20202649_2			
A5	ENST00000306312	PRES_HUMAN	7	102575377	102600632
A5	OTTHUMT00007007256	RELN	7	102575377	102622492
A5	ENSESTT000000040126		7	102672768	103190494
A5	ENSESTT000000040125		7	102673292	102684682
A5	ENSESTT000000040124		7	102684757	102690743
A5	ENSESTT000000040123		7	102691660	102698900
A5	ENSESTT000000040122		7	102699088	102716370
A5	ENSESTT000000040121		7	102721238	102741291
A5	ENSESTT000000040120		7	102743823	102746233
A5	ENSESTT000000040118		7	102795307	102812764
A5	ENSESTT000000040117		7	102828853	102831012
A5	ENSESTT000000040114		7	102836540	102853738
A5	OTTHUMT00007006419	PRO1598	7	102898905	102924166
			7	103134831	103136533

TABLE 3 (Continued)

A5	ENST000000314952	NM_018503	7	103135443	103135619
A5	ENSESTT00000070876		7	103327319	103337875
A5	OTTHUMT00007006177	ORC5L	7	103327321	103408971
A5	ENST00000297431	ORC5L	7	103327826	103408883
A5	ENSESTT00000070875		7	103368963	103389283
A5	OTTHUMT00007007749	Hs_7_c1615	7	103380669	103381272
A5	OTTHUMT00007006936	mbhmh_h_102246067			
		_103146066_m_			
		21002648_2	7	103529801	103714756
A5	ENSESTT00000070872		7	103529849	104107212
A5	ENST00000330383		7	103868727	103869859
A5	OTTHUMT00007007754	Hs_7_c1617	7	103868727	103870551
A5	ENSESTT00000070874		7	103868774	103870161
A5	OTTHUMT00007007536	Hs_7_c3016	7	103871565	103871676
A5	OTTHUMT00007007047	mbhmh_h_102246067			
		_103146066_m_			
		21002648_2	7	103887281	103938199
A5	ENSESTT00000070873		7	103939577	103945127
A5	OTTHUMT00007006239	nh_nm_gi16307605	7	103997484	104005062
A5	OTTHUMT00007007758	Hs_7_c1619	7	104027314	104027771
A5	ENSESTT00000041852		7	104142399	104163317
A5	OTTHUMT00007007780	Hs_7_c1620	7	104191028	104191180
A5	ENSESTT00000041867		7	104215182	104242044
A5	ENSESTT00000041866		7	104215182	104263257
A5	ENSESTT00000041864		7	104215182	104265008
A5	ENSESTT00000041865		7	104215182	104265008
A5	ENSESTT00000041862		7	104215182	104275754
A5	ENSESTT00000041863		7	104215182	104275754
A5	ENST00000311117		7	104215186	104314311
A5	ENSESTT00000041854	MLL5	7	104215192	104242044
A5	ENSESTT00000041853		7	104215192	104263257
A5	ENSESTT00000041868		7	104215192	104275754
A5	ENSESTT00000041855		7	104215403	104275754
A5	OTTHUMT00007006515	MLL5	7	104241847	104302458

TABLE 3 (Continued)

A5	ENST000000257745	O95038	7	104241931	104301566
A5	ENST000000333597	Q8IWR5	7	104241931	104314311
A5	ENSESTT000000041857		7	104264328	104303627
A5	ENSESTT000000041856		7	104264328	104307572
A5	ENST000000222422	Q9NS29	7	104264368	104291189
A5	ENSESTT000000041858		7	104267501	104275739
A5	ENSESTT000000041859		7	104278279	104291101
A5	ENST000000334914	Q86W16	7	104278380	104290339
A5	ENSESTT000000041860		7	104279822	104291098
A5	ENSESTT000000041861		7	104302560	104307572
A5	ENST000000249297	Q86W12	7	104302864	104308193
A5	ENSESTT000000041870		7	104307682	104310494
A5	ENSESTT000000041869		7	104307682	104313681
A5	OTTHUMT00007007782	Hs_7_c1623	7	104308132	104313327
A5	ENSESTT000000041872		7	104308136	104310494
A5	ENSESTT000000041871		7	104308136	104313681
A5	ENSESTT000000041873		7	104308939	104313681
A5	ENST000000334884	Q86TI3	7	104310018	104311845
A5	ENSESTT000000041909		7	104311672	104318457
A5	ENST000000334877	Q86WG0	7	104312977	104314348
A5	OTTHUMT00007006319	SRPK2	7	104317346	104469993
A5	ENST000000257701	SRPK2	7	104317350	104470008
A5	ENSESTT000000041904		7	104318221	104470012
A5	ENSESTT000000041900		7	104318221	104589682
A5	ENSESTT000000041896		7	104318221	104589703
A5	ENSESTT000000041910		7	104318221	104589839
A5	ENSESTT000000041908		7	104318327	104404634
A5	ENSESTT000000041905		7	104318558	104470012
A5	ENSESTT000000041901		7	104318558	104589682
A5	ENSESTT000000041897		7	104318558	104589703
A5	ENSESTT000000041911		7	104318558	104589839
A5	ENSESTT000000041906		7	104346254	104470012
A5	ENSESTT000000041902		7	104346254	104589682
A5	ENSESTT000000041898		7	104346254	104589703

TABLE 3 (Continued)

A5	ENSESTT000000041894	7	104346254	104589839
A5	ENSESTT000000041907	7	104361279	104470012
A5	ENSESTT000000041903	7	104361279	104589682
A5	ENSESTT000000041899	7	104361279	104589703
A5	ENSESTT000000041895	7	104361279	104589839
A5	OTTHUMT00007007787	7	104390180	104390804
A5	OTTHUMT00007007788	7	104405611	104405835
A5	OTTHUMT00007007791	7	104445633	104445945
A5	OTTHUMT00007007792	7	104502500	104503061
A5	OTTHUMT00007007794	7	104555221	104555496
A5	ENST00000257687	7	104657493	104709424
A5	ENSESTT000000041893	7	104658206	104660239
A5	ENSESTT000000041892	7	104658241	104707036
A5	OTTHUMT00007006894	7	104658637	104723192
A5	ENSESTT000000041890	7	104683290	104723218
A5	ENSESTT000000041891	7	104706926	104723218
A5	ENST00000320648	7	104731187	104731649
A5	ENSESTT000000041876	7	104733157	104743633
A5	ENSESTT000000041875	7	104733157	104764927
A5	ENSESTT000000041874	7	104733157	104766577
A5	ENST00000257700	7	104733207	104768660
A5	ENSESTT000000041877	7	104743218	104747974
A5	OTTHUMT00007006406	7	104751134	104768660
A5	ENSESTT000000041887	7	104766086	104770452
A5	ENSESTT000000041888	7	104766102	104770414
A5	ENSESTT000000041886	7	104766102	104770466
A5	ENSESTT000000041889	7	104766110	104770281
A5	ENSESTT000000041885	7	104768394	104782425
A5	ENSESTT000000041884	7	104768394	104782668
A5	ENST00000327788	7	104768432	104782432
A5	ENST00000310149	7	104783163	104784060
A5	ENST00000329090	7	104783236	104784089
A5	ENST00000332220	7	104783236	104784134
A5	OTTHUMT00007007834	7	104783239	104784179
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	Hs_7_c1626			
	Hs_7_c1627			
	Hs_7_c1628			
	Hs_7_c1629			
	NM_019042			
	FLJ20485			
	NM_021930			
	FLJ11785			
	Hs_7_c1634			

TABLE 3 (Continued)

A5	OTTHUMT000007006590	mbhnh_h_103713457 _104613456_m _26903715_2	7	104792229	104844029
A5	ENSESTT000000041883	YC18_HUMAN	7	104808623	104811530
A5	ENST000000297416	Q9BTQ8	7	104808830	105077559
A5	ENST000000275664		7	104814454	104825244
A5	ENSESTT000000041880		7	104815496	104893101
A5	ENSESTT000000041878		7	104816938	104818834
A5	ENSESTT000000041881		7	104818847	104893101
A5	ENSESTT000000041882		7	104821070	104893101
A5	ENSESTT000000041879		7	104961923	105077563
A5	ENST000000318724	NM_152749	7	104962355	105077535
A5	OTTHUMT000007007007	mbhnh_nh_h _103713457 _104613456_ m_2690371_ Hs_7_c1637	7		
A5	OTTHUMT000007007837		7	104989335	104993681
A5	ENST000000329846		7	105020472	105021075
A5	ENSESTT000000035755		7	105020547	105021078
A5	OTTHUMT000007007841	Hs_7_c1638	7	105076067	105077551
A5	OTTHUMT000007006283	mbhnh_h_103713457 _104613456_m _26103716_2	7	105076766	105083558
A5	OTTHUMT000007006180	mbhnh_H_DJ0568B10 _F020305.fgenes2.1	7	105095260	105151278
A5	ENSESTT000000035734		7	105175823	105223819
A5	ENSESTT000000035735		7	105181971	105197312
A5	ENST000000317716		7	105202525	105205801
A5	ENSESTT000000035736	NM_152750	7	105205474	105231797
A5	OTTHUMT000007006497	mbhnh_nh_h_103713457 _104613456_m_2690371	7	105205482	105221463
A5	ENSESTT000000035737		7	105224488	105232430
A5	OTTHUMT000007006260	SYPL	7	105229534	105234760
A5	ENST000000011473	SYPL	7	105291482	105313528
			7	105291489	105313588

TABLE 3 (Continued)

A5	ENSESTT00000035754		7	105292251	105294130
A5	ENSESTT00000035753		7	105292251	105298877
A5	ENSESTT00000035750		7	105292251	105313289
A5	ENSESTT00000035752		7	105292673	105300262
A5	ENSESTT00000035751		7	105300133	105313289
A5	OTTHUMT00007007872	Hs_7_c1643	7	105326309	105327674
A5	OTTHUMT00007006155	PBEF	7	105451187	105485888
A5	ENSESTT00000035747		7	105451529	105470301
A5	ENSESTT00000035746		7	105451529	105471257
A5	ENSESTT00000035745		7	105451529	105476028
A5	ENSESTT00000035740		7	105451529	105486169
A5	ENSESTT00000035741		7	105451529	105486169
A5	ENSESTT00000035738		7	105451529	105486589
A5	ENSESTT00000035749		7	105452034	105454595
A5	ENST00000222553	PBEF_HUMAN	7	105452060	105485898
A5	ENSESTT00000035748		7	105462192	105464474
A5	ENSESTT00000035744		7	105469472	105485522
A5	ENSESTT00000035742		7	105473329	105486169
A5	ENSESTT00000035743		7	105473329	105486169
A5	ENSESTT00000035739		7	105473329	105486589
A5	OTTHUMT00007007874	Hs_7_c1646	7	105516202	105516577
A5	OTTHUMT00007007875	Hs_7_c1647	7	105831822	105832343
A5	OTTHUMT00007007586	Hs_7_c3104	7	105832534	105833055
A5	OTTHUMT00007006262	mbxx_nh_chr7			
		.105.006.a	7	105833369	105833704
A5	ENST00000315965	NM_175884	7	105861166	105861861
A5	OTTHUMT00007007876	Hs_7_c1648	7	105861484	105861765
A6	ENSESTT00000021279		10	73471701	73512400
A6	ENST0000311182	CBARA1	10	73471701	73730468
A6	ENSESTT00000021278		10	73472141	73579660
A6	ENSESTT00000021277		10	73581559	73730469
A6	ENSESTT00000021276		10	73637423	73730476
A6	ENSESTT00000021271		10	73668375	73670920
A6	ENST00000313314	NM_138357	10	73796492	73992053

TABLE 3 (Continued)

A6	ENST000000286508	Q96FL3	10	73796537	73990183
A6	ENSESTT00000021273		10	73797084	73988744
A6	ENSESTT00000021272		10	73797084	73992055
A6	ENSESTT00000021275		10	73964348	73988744
A6	ENSESTT00000021274		10	73964348	73992055
A6	ENST000000260885	NM_152635	10	73997942	74037390
A6	ENST000000334011	Q8WWZ8	10	73998160	74036885
A6	ENSESTT00000021456		10	74016118	74028872
A6	ENSESTT00000021457		10	74034940	74046965
A6	ENSESTT00000021528		10	74039868	74058975
A6	ENST000000260878	PLA2G13	10	74039978	74059139
A6	ENST000000332968		10	74110192	74110956
A6	ENST000000263556	P4HA1	10	74112583	74179244
A6	ENST000000307116	P4HA1	10	74112583	74179244
A6	ENSESTT00000021526		10	74118611	74155608
A6	ENSESTT00000021527		10	74121207	74155454
A6	ENSESTT00000021525		10	74157783	74201227
A6	ENST000000299408	NUDT13	10	74214816	74236183
A6	ENSESTT00000021458		10	74214883	74236720
A6	ENST000000335635	Q9Y3X2	10	74226553	74235264
A6	ENST000000325946	NUDT13	10	74229464	74229628
A6	ENST000000263565	SGT1_HUMAN	10	74238886	74272420
A6	ENSESTT00000021521		10	74243730	74272456
A6	ENSESTT00000021522		10	74258724	74272456
A6	ENSESTT00000021524		10	74260633	74272402
A6	ENSESTT00000021523		10	74260633	74272456
A6	ENST000000242505	Q9Y2I0	10	74279052	74346541
A6	ENSESTT00000021459		10	74332501	74340393
A6	ENSESTT00000021460		10	74332502	74345507
A6	ENSESTT00000021461		10	74334657	74340393
A6	ENSESTT00000021463		10	74338355	74338793
A6	ENSESTT00000021462		10	74339356	74345515
A6	ENST000000299416	DNAJC9	10	74347761	74351550
A6	ENST000000299418	MRPS16	10	74353204	74357012

TABLE 3 (Continued)

A6	ENSESTT000000021464		10	74353210	74355109
A6	ENSESTT000000021465		10	74357530	74358710
A6	ENSESTT000000021466		10	74357561	74358710
A6	ENSESTT000000021520		10	74358121	74379898
A6	ENST00000310715	NM_145170	10	74358127	74463115
A6	ENST00000286530	Q8N7D5	10	74358336	74397767
A6	ENST00000277916	ANXA7	10	74479811	74518414
A6	ENST00000260852	ANXA7	10	74480456	74505217
A6	ENSESTT000000021505		10	74484518	74518436
A6	ENSESTT000000021506		10	74484518	74518436
A6	ENSESTT000000021507		10	74484518	74518436
A6	ENSESTT000000021467		10	74485833	74487824
A6	ENSESTT000000021517		10	74487551	74518431
A6	ENSESTT000000021508		10	74487551	74518436
A6	ENSESTT000000021509		10	74487551	74518436
A6	ENSESTT000000021518		10	74487935	74518431
A6	ENSESTT000000021510		10	74487935	74518436
A6	ENSESTT000000021511		10	74487935	74518436
A6	ENSESTT000000021512		10	74487935	74518436
A6	ENSESTT000000021513		10	74487935	74518436
A6	ENSESTT000000021514		10	74487935	74518436
A6	ENSESTT000000021519		10	74487963	74518419
A6	ENSESTT000000021515		10	74487976	74518436
A6	ENSESTT000000021516		10	74492701	74518436
A6	ENST00000299432	ZMYND17	10	74528914	74537973
A6	ENST00000265920	PPP3CB	10	74541167	74600362
A6	ENSESTT000000021500		10	74542284	74575867
A6	ENSESTT000000021501		10	74542284	74575867
A6	ENSESTT000000021502		10	74542546	74575867
A6	ENSESTT000000021504		10	74542559	74571979
A6	ENST00000320361	Q8N3W4	10	74542603	74600250
A6	ENSESTT000000021503		10	74548717	74575867
A6	ENSESTT000000021499		10	74579279	74600362
A6	ENSESTT000000021468		10	74600104	74601061

TABLE 3 (Continued)

A6	ENST000000319786	NM_152586	10	74601901	74621672
A6	ENSESTT00000021469		10	74634518	74635149
A6	ENST000000318330	MYOZ1	10	74736016	74746118
A6	ENST000000332382		10	74736345	74742281
A6	ENST000000299404	NM_024875	10	74749893	74755390
A6	ENST000000310381		10	74778960	74802116
A6	ENSESTT00000021498		10	74787103	74799146
A6	ENSESTT00000021470		10	74834923	74835765
A6	ENST000000333366		10	74836264	74838018
A6	ENST000000332341		10	74836264	74838018
A6	ENSESTT00000021472		10	74848734	74869952
A6	ENSESTT00000021471		10	74848734	74875148
A6	ENSESTT00000021473		10	74848778	74856191
A6	ENST000000313749	SEC24C	10	74851194	74875548
A6	ENSESTT00000021474		10	74870160	74875148
A6	ENSESTT00000021475		10	74872779	74875148
A6	ENSESTT00000021476		10	74873363	74874530
A6	ENST000000326248	NM_173540	10	74876477	74880577
A6	ENST000000299593	Q96CJ6	10	74876947	74877339
A6	ENSESTT00000021478		10	74877622	74880515
A6	ENSESTT00000021477		10	74877622	74883436
A6	ENSESTT00000021479		10	74886411	74888015
A6	ENST000000310182	Q96BP2	10	74886424	74887727
A6	ENSESTT00000021480		10	74886683	74888015
A6	ENST000000326185	Q8NB34	10	74890240	74890617
A6	ENSESTT00000021481		10	74893032	74894348
A6	ENSESTT00000021482		10	74893456	74894353
A6	ENSESTT00000021483		10	74893863	74894617
A6	ENST000000242558	O94987	10	74894547	74903962
A6	ENSESTT00000021484		10	74895484	74896595
A6	ENSESTT00000021485		10	74897161	74898597
A6	ENST000000310153	Q9H8F3	10	74897187	74906153
A6	ENSESTT00000021486		10	74900732	74903751
A6	ENSESTT00000021487		10	74900875	74903751

TABLE 3 (Continued)

A6	ENSESTT000000021488		10		74904375	74906153
A6	ENST000000325890	Q8N420	10		74904393	74905880
A6	ENSESTT000000021489		10		74905268	74906153
A6	ENST000000299641	NDST2	10		74906812	74913092
A6	ENST000000309979	Q8WV68	10		74915239	74916144
A6	ENST000000309967		10		74916017	74916304
A6	ENST000000322680	CAMK2G	10		74916862	74978941
A6	ENST000000305762	Q8NIA4	10		74919376	74977443
A6	ENST000000322635	NM_172169	10		74919376	74978822
A6	ENST000000277853	NM_001222	10		74919376	74978822
A6	ENSESTT000000021493		10		74919386	74978883
A6	ENSESTT000000021490		10		74919386	74978935
A6	ENSESTT000000021497		10		74919578	74951712
A6	ENSESTT000000021495		10		74921388	74978836
A6	ENSESTT000000021494		10		74921388	74978883
A6	ENSESTT000000021491		10		74921388	74978935
A6	ENSESTT000000021496		10		74921432	74952651
A6	ENSESTT000000021492		10		74953412	74978891
A6	ENSESTT000000021181		10		75013538	75019592
A6	ENSESTT000000021180		10		75013538	75019765
A6	ENSESTT000000021179		10		75013538	75021858
A6	ENST000000317358	Q8NAK4	10		75014337	75016591
A6	ENSESTT000000021174		10		75015493	75019592
A6	ENSESTT000000021183		10		75015493	75019765
A6	ENSESTT000000021182		10		75015493	75021858
A6	ENST000000242464	PLAU	10		75015909	75020926
A6	ENSESTT000000021176		10		75016395	75019765
A6	ENSESTT000000021175		10		75016395	75021858
A6	ENSESTT000000021178		10		75017648	75019765
A6	ENSESTT000000021177		10		75017648	75021858
A6	ENSESTT000000021185		10		75102475	75175189
A6	ENSESTT000000021184		10		75102475	75177160
A6	ENSESTT000000021186		10		75102477	75168197
A6	ENST000000277829	NM_003373	10		75102569	75222530

TABLE 3 (Continued)

A6	ENST000000211998	VCL	10	75102569	75224513
A6	ENSESTT00000021187		10	75147443	75177116
A6	ENSESTT00000021189		10	75179224	75219023
A6	ENSESTT00000021188		10	75179224	75223339
A6	ENSESTT00000021209		10	75200527	75206788
A6	ENSESTT00000021191		10	75201559	75219023
A6	ENSESTT00000021190		10	75201559	75223339
A6	ENSESTT00000021192		10	75218050	75223339
A6	ENSESTT00000021193		10	75219116	75222883
A6	ENSESTT00000021208		10	75222927	75224394
A6	ENST000000330581	AP3M1	10	75226134	75255181
A6	ENSESTT00000021206		10	75227787	75255426
A6	ENST000000323546	NM_030970	10	75229527	75229598
A6	ENSESTT00000021207		10	75233235	75234365
A6	ENSESTT00000021195		10	75255568	75632868
A6	ENSESTT00000021194		10	75255568	75813656
A6	ENSESTT00000021196		10	75255596	75328956
A6	ENST000000286621	ADK	10	75255640	75812806
A6	ENSESTT00000021199		10	75280904	75632868
A6	ENSESTT00000021198		10	75280904	75704867
A6	ENSESTT00000021197		10	75280904	75813656
A6	ENST000000330453		10	75527848	75528380
A6	ENST000000326278		10	75631945	75632449
A6	ENSESTT00000021205		10	75903848	75958752
A6	ENSESTT00000021201		10	75929925	75947950
A6	ENSESTT00000021200		10	75929925	76076904
A6	ENST000000287239	MYST4	10	75930980	76135407
A6	ENSESTT00000021203		10	75930982	75947950
A6	ENSESTT00000021202		10	75930982	76076904
A6	ENSESTT00000021204		10	75931001	75947270
A6	ENSESTT00000021123		10	76083627	76086278
A6	ENSESTT00000021143		10	76124157	76126508
A6	ENSESTT00000021142		10	76198793	76199990
A6	ENST000000308475		10	76198802	76213537

TABLE 3 (Continued)

A6	ENSESTT000000021141		10	76198943	76200127
A6	ENSESTT000000021139		10	76202071	76213531
A6	ENSESTT000000021140		10	76208362	76213559
A6	ENST00000330673	Q96J67	10	76210030	76213518
A6	ENSESTT000000021124		10	76215992	76255437
A6	ENSESTT000000021138		10	76228974	76230298
A6	ENST00000287258	NM_144660	10	76254890	76280615
A6	ENSESTT000000021125		10	76280444	76281496
A6	ENSESTT000000021127		10	76314523	76322599
A6	ENSESTT000000021126		10	76314523	76335808
A6	ENST00000298468	VDAC2	10	76315209	76335638
A6	ENSESTT000000021128		10	76315395	76335808
A6	ENST00000304595	VDAC2	10	76315945	76335465
A6	ENSESTT000000021129		10	76333671	76335638
A6	ENSESTT000000021136		10	76338330	76339540
A6	ENSESTT000000021137		10	76338332	76339540
A6	ENSESTT000000021135		10	76338332	76339908
A6	ENST00000298482	NM_144589	10	76338434	76340289
A6	ENSESTT000000021134		10	76340085	76340318
A6	ENST00000308111	NM_032772	10	76502522	76506032
A6	ENSESTT000000021133		10	76504121	76505779
A6	ENSESTT000000021130		10	76505464	76511780
A6	ENST00000321905		10	76507413	76512179
A6	ENSESTT000000021131		10	76508372	76511814
A6	ENST00000260908	Q9P1K6	10	76683657	76683884
A6	ENSESTT000000021132		10	76875127	77140490
A6	ENST00000277847	NM_032024	10	77140367	77163144
A6	ENSESTT000000021106		10	77387031	77389445
A6	ENSESTT000000021100		10	77428760	77661738
A6	ENSESTT000000021101		10	77463793	77661593
A6	ENSESTT000000021098		10	77507582	77661714
A6	ENSESTT000000021099		10	77569175	77661701
A6	ENSESTT000000021105		10	77981962	77992271
A6	ENST00000331566		10	77982100	77982255

TABLE 3 (Continued)

A6	ENST000000286628	KCNMA1	10	77991627	78214698
A6	ENSESTT00000021104		10	77991650	78019414
A6	ENSESTT00000021102		10	77992403	78006633
A6	ENSESTT00000021103		10	77992437	78082885
A6	ENSESTT00000021145		10	78009186	78053824
A6	ENSESTT00000021172		10	78014424	78053629
A6	ENSESTT00000021173		10	78018433	78049275
A6	ENSESTT00000021171		10	78053673	78116388
A6	ENSESTT00000021170		10	78078354	78123424
A6	ENSESTT00000021168		10	78099639	78143996
A6	ENSESTT00000021169		10	78116559	78143977
A6	ENSESTT00000021167		10	78177554	78212924
A6	ENSESTT00000021166		10	78189055	78287832
A6	ENSESTT00000021146		10	78204890	78205770
A6	ENSESTT00000021147		10	78252653	78254461
A6	ENSESTT00000021162		10	78287850	78742046
A6	ENSESTT00000021165		10	78686459	78723017
A6	ENSESTT00000021163		10	78740556	78741848
A6	ENSESTT00000021164		10	78740566	78741829
A6	ENST00000334073		10	78836952	78838490
A6	ENST00000320599		10	78884695	78886237
A6	ENST00000320511	DLG5	10	78895154	78961260
A6	ENSESTT00000021157		10	78896519	78910150
A6	ENSESTT00000021161		10	78896672	78898481
A6	ENSESTT00000021158		10	78896672	78910150
A6	ENSESTT00000021159		10	78898010	78910150
A6	ENSESTT00000021160		10	78899194	78910150
A6	ENSESTT00000021155		10	78911119	78913967
A6	ENSESTT00000021156		10	78911160	78912313
A6	ENSESTT00000021154		10	78915532	78916696
A6	ENSESTT00000021153		10	78920387	78923893
A6	ENSESTT00000021151		10	78925896	78935239
A6	ENSESTT00000021152		10	78925896	78935239
A6	ENSESTT00000021149		10	78925896	78946262

TABLE 3 (Continued)

A6	ENSESTT000000021150		10	78925896	78946262
A6	ENSESTT000000021148		10	78948038	78958638
A6	ENST000000318641		10	79032042	79032499
A6	ENST000000277783	RPC1_HUMAN	10	79080509	79133862
A6	ENSESTT000000021121		10	79081352	79090348
A6	ENSESTT000000021122		10	79086568	79089703
A6	ENSESTT000000021120		10	79104456	79128979
A6	ENSESTT000000021112		10	79138153	79141824
A6	ENSESTT000000021111		10	79138153	79141833
A6	ENSESTT000000021110		10	79138153	79144586
A6	ENSESTT000000021109		10	79138153	79145062
A6	ENSESTT000000021108		10	79138153	79153449
A6	ENST000000260896	RPS24	10	79138226	79145063
A6	ENSESTT000000021114		10	79139712	79145062
A6	ENSESTT000000021113		10	79139712	79159037
A6	ENST000000311407	Q9P1E1	10	79193716	79194732
A6	ENSESTT000000021115		10	79353170	79457696
A6	ENSESTT000000021116		10	79371686	79382425
A6	ENSESTT000000021117		10	79371802	79434851
A6	ENSESTT000000021118		10	79398200	79405363
A6	ENSESTT000000021119		10	79800422	79801382
A6	ENSESTT000000021253		10	80160384	80173420
A6	ENSESTT000000021230		10	80244085	80395502
A6	ENST000000334512	RAI17	10	80244114	80417109
A6	ENSESTT000000021231		10	80348029	80395502
A6	ENST000000277788	RAI17	10	80348029	80417109
A6	ENSESTT000000021232		10	80410611	80417213
A6	ENSESTT000000021233		10	80451828	80458345
A6	ENST000000225174	PPIF	10	80451837	80459684
A6	ENSESTT000000021234		10	80486687	80513633
A6	ENST000000298180	NM_153367	10	80486688	80549986
A6	ENSESTT000000021252		10	80498696	80549886
A6	ENSESTT000000021251		10	80608432	80610640
A6	ENST000000329262		10	80617009	80617473

TABLE 3 (Continued)

A6	ENST000000328784	SFTPA2	10	80661568	80663842
A6	ENSESTT00000021246		10	80661840	80664756
A6	ENSESTT00000021247		10	80661841	80664756
A6	ENSESTT00000021248		10	80661863	80664744
A6	ENSESTT00000021245		10	80663244	80984138
A6	ENST000000334432	SFTPA1	10	80715314	80718472
A6	ENST000000329658		10	80716284	80718472
A6	ENSESTT00000021235		10	80718201	81039562
A6	ENSESTT00000021237		10	80718531	81039746
A6	ENSESTT00000021238		10	80718764	81039731
A6	ENSESTT00000021241		10	80718926	80719667
A6	ENSESTT00000021239		10	80719112	81039731
A6	ENSESTT00000021240		10	80719228	81039731
A6	ENSESTT00000021236		10	80772270	81190839
A6	ENSESTT00000021250		10	80789921	80795955
A6	ENST000000241878	Q9H392	10	80852848	80853054
A6	ENSESTT00000021249		10	80928323	80930532
A6	ENST000000333539		10	80936971	80937273
A6	ENST000000242457	SFTPA2	10	80981513	80983787
A6	ENSESTT00000021242		10	80981785	80984701
A6	ENSESTT00000021243		10	80981786	80984701
A6	ENSESTT00000021244		10	80981808	80984689
A6	ENSESTT00000021401		10	81035257	81038146
A6	ENST000000242455	SFTPA1	10	81035260	81038418
A6	ENSESTT00000021402		10	81035266	81038139
A6	ENSESTT00000021403		10	81035780	81036737
A6	ENSESTT00000021455		10	81038872	81039613
A6	ENSESTT00000021404		10	81093936	81101184
A6	ENSESTT00000021454		10	81110118	81116151
A6	ENSESTT00000021446		10	81116552	81250849
A6	ENST000000335456		10	81128338	81275386
A6	ENST000000334434	Q9H392	10	81173024	81173230
A6	ENSESTT00000021451		10	81190668	81230459
A6	ENSESTT00000021447		10	81190746	81250724

TABLE 3 (Continued)

A6	ENSESTT000000021453	10	81202274	81202689
A6	ENSESTT000000021448	10	81226317	81250724
A6	ENSESTT000000021450	10	81228390	81238987
A6	ENSESTT000000021452	10	81228392	81230459
A6	ENSESTT000000021449	10	81228392	81250724
A6	ENST000000305740	10	81268629	81274246
A6	ENST000000298189	10	81268792	81275205
A6	ENSESTT000000021445	10	81294428	81295438
A6	ENSESTT000000021405	10	81329237	81332141
A6	ENST000000312535	10	81344660	81347359
A6	ENSESTT000000021406	10	81346244	81347451
A6	ENSESTT000000021444	10	81362073	81373418
A6	ENSESTT000000021443	10	81362073	81373430
A6	ENST000000256035	10	81362085	81373438
A6	ENST000000302577	10	81456301	81456726
A6	ENSESTT000000021407	10	81503006	81516880
A6	ENSESTT000000021408	10	81503009	81516880
A6	ENST000000256052	10	81503033	81516880
A6	ENSESTT000000021409	10	81503580	81516880
A6	ENSESTT000000021410	10	81506036	81510774
A6	ENSESTT000000021411	10	81506170	81515572
A6	ENSESTT000000021412	10	81506477	81516880
A6	ENSESTT000000021442	10	81515319	81516192
A6	ENSESTT000000021413	10	81557063	81569687
A6	ENSESTT000000021414	10	81566481	81568673
A6	ENSESTT000000021415	10	81568379	81569370
A6	ENSESTT000000021416	10	81579472	81582085
A6	ENSESTT000000021426	10	81579821	81582361
A6	ENSESTT000000021430	10	81579821	81583460
A6	ENSESTT000000021429	10	81579821	81587747
A6	ENSESTT000000021427	10	81579932	81590496
A6	ENST000000265447	10	81580186	81597194
A6	ENSESTT000000021428	10	81583422	81587941
A6	ENSESTT000000021440	10	81591229	81629900

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NM_025125

ANXA11

TABLE 3 (Continued)

A6	ENSESTT00000021441	10	81593529	81597209
A6	ENST000000316258	10	81671552	81672016
A6	ENST000000280867	10	81696158	81713756
A6	ENSESTT00000021439	10	81697070	81697478
A6	ENSESTT00000021438	10	81697983	81699025
A6	ENSESTT00000021437	10	81700853	81713692
A6	ENSESTT00000021435	10	81700889	81714017
A6	ENSESTT00000021436	10	81705012	81714017
A6	ENSESTT00000021433	10	81760462	81781086
A6	ENST000000302526	10	81762785	81776934
A6	ENSESTT00000021434	10	81762846	81781047
A6	ENSESTT00000021417	10	81781106	81787306
A6	ENST000000316132	10	81781135	81792406
A6	ENSESTT00000021418	10	81787282	81791494
A6	ENSESTT00000021419	10	81832162	81856971
A6	ENSESTT00000021420	10	81832829	81856971
A6	ENSESTT00000021421	10	81832918	81856971
A6	ENSESTT00000021422	10	81838176	81856971
A6	ENST000000241895	10	81838189	81856968
A6	ENST000000312169	10	81913567	81942309
A6	ENST000000316064	10	81913567	81945181
A6	ENST000000265450	10	81913567	81946237
A6	ENSESTT00000021423	10	81913573	81947518
A6	ENSESTT00000021432	10	81939416	81943437
A6	ENSESTT00000021424	10	81940535	81942599
A6	ENSESTT00000021425	10	81940630	81956185
A6	ENSESTT00000021431	10	81953930	81960275
A6	ENST000000329171	10	81959343	81959717
A6	ENST000000313455	10	82067342	82068641
A6	ENSESTT00000021107	10	82074130	82078067
A7	OTTHUMT00007008148	7	71452603	71709685
A7	ENSESTT00000039973	7	71571787	71621457
A7	OTTHUMT00007007334	7	71599963	71600172
A7	ENST000000265301	7	71605907	71606016

TABLE 3 (Continued)

A7	OTTHUMT00007007336	Hs_7_c1066	7	71645929	71646324
A7	ENSESTT00000039972		7	71654577	71698179
A7	ENSESTT00000039971		7	71689895	71710894
A7	ENSESTT00000039970		7	71709544	71710900
A7	ENSESTT00000039903		7	71712159	71716707
A7	ENSESTT00000039904		7	71712178	71714460
A7	OTTHUMT00007006933	LOC155370	7	71712203	71716703
A7	ENSESTT00000039905		7	71712367	71716710
A7	OTTHUMT00007007337	Hs_7_c1068	7	71746587	71753122
A7	ENSESTT00000039948		7	71746639	71904642
A7	OTTHUMT00007007338	Hs_7_c1069	7	71747922	71748002
A7	ENST00000323915		7	71749050	71751686
A7	ENSESTT00000039906		7	71762023	71773321
A7	ENSESTT00000039911		7	71762045	71763010
A7	ENSESTT00000039910		7	71762045	71822067
A7	ENSESTT00000039909		7	71762045	71822522
A7	ENSESTT00000039908		7	71762045	72120515
A7	ENSESTT00000039907		7	71762045	72121873
A7	OTTHUMT00007006851	POM121	7	71762053	71834096
A7	ENST00000275580	O95746	7	71762053	71922346
A7	ENSESTT00000039912		7	71773689	71796697
A7	ENST00000257622	POM121	7	71809068	71828890
A7	ENSESTT00000039913		7	71823101	72121996
A7	ENSESTT00000039914		7	71823135	71830954
A7	ENSESTT00000039938		7	71830947	71831469
A7	ENSESTT00000039937		7	71830947	71831838
A7	ENSESTT00000039935		7	71830947	71831880
A7	ENSESTT00000039933		7	71830947	71831893
A7	ENSESTT00000039931		7	71830947	71833202
A7	ENSESTT00000039929		7	71830947	71837351
A7	ENSESTT00000039926		7	71830947	71837371
A7	ENSESTT00000039925		7	71830947	71837390
A7	ENSESTT00000039936		7	71830954	71831875
A7	ENSESTT00000039934		7	71830954	71831893

TABLE 3 (Continued)

A7	ENSESTT00000039956		7	71881144	71888584
A7	ENSESTT00000039957		7	71881144	71888584
A7	ENSESTT00000039967		7	71881902	71888562
A7	ENSESTT00000039958		7	71881902	71888584
A7	ENSESTT00000039959		7	71881902	71888584
A7	ENSESTT00000039960		7	71882400	71888584
A7	ENSESTT00000039961		7	71882400	71888584
A7	ENSESTT00000039968		7	71882996	71888562
A7	OTTHUMT00007007358	Hs_7_c1079	7	71888246	71931788
A7	ENSESTT00000039917		7	71888736	71922142
A7	ENSESTT00000039918		7	71888768	71932926
A7	ENSESTT00000039920		7	71888780	71904881
A7	ENSESTT00000039919		7	71888780	71932926
A7	OTTHUMT00007006363	mbhmh_gw1304124			
		.71119255.71153128			
		.3.2e-3			
A7	ENSESTT00000039921		7	71892093	71895794
A7	ENST000000334824		7	71894107	71932926
A7	ENSESTT00000039944	Q86WY7	7	71902561	71908486
A7	ENSESTT00000039943		7	71903628	71905036
A7	ENSESTT00000039947		7	71904798	71932687
A7	ENSESTT00000039946		7	71908198	71909384
A7	ENSESTT00000039945		7	71910560	71912409
A7	ENST000000323689		7	71918103	71919942
A7	ENST000000306533		7	71920032	71931791
A7	ENST000000335506	PMS2L5	7	71922114	71931791
A7	ENSESTT00000039942	Q86WY7	7	71930603	71936531
A7	OTTHUMT00007006797	mfhmh_H_NH0396K03	7	71931673	71933081
		_F218045.fgenes2.5	7		
A7	ENSESTT00000039941		7	71931784	71940793
A7	ENSESTT00000039922		7	71936243	71937429
A7	OTTHUMT00007007381		7	71981407	72009414
A7	ENSESTT00000041207	Hs_7_c1083	7	72001548	72031575
A7	ENSESTT00000041210		7	72001575	72012822
			7	72016228	72028278

TABLE 3 (Continued)

A7	ENSESTT000000041209	7	72016228	72031964
A7	ENSESTT000000041208	7	72016228	72032675
A7	ENSESTT000000041225	7	72016228	72032723
A7	ENSESTT000000041224	7	72016228	72032724
A7	ENSESTT000000041215	7	72017507	72028278
A7	ENSESTT000000041214	7	72017507	72031964
A7	ENSESTT000000041213	7	72017507	72032675
A7	ENSESTT000000041212	7	72017507	72032723
A7	ENSESTT000000041211	7	72017507	72032724
A7	ENSESTT000000041220	7	72018632	72028278
A7	ENSESTT000000041219	7	72018632	72031964
A7	ENSESTT000000041218	7	72018632	72032675
A7	ENSESTT000000041217	7	72018632	72032723
A7	ENSESTT000000041216	7	72018632	72032724
A7	ENSESTT000000041221	7	72020761	72028278
A7	ENSESTT000000041222	7	72028242	72032724
A7	ENSESTT000000041223	7	72029512	72032724
A7	ENSESTT000000041228	7	72046727	72056376
A7	ENSESTT000000041226	7	72046727	72062034
A7	ENSESTT000000041227	7	72046727	72062034
A7	OTTHUMT00007006731	7	72046768	72062076
A7	ENSESTT000000041229	7	72046771	72056068
A7	ENST00000330925	7	72046778	72061921
A7	ENSESTT000000041230	7	72057999	72062076
A7	ENSESTT000000041231	7	72058029	72062076
A7	ENST00000297906	7	72069401	72070888
A7	ENSESTT000000041281	7	72077500	72079722
A7	OTTHUMT00007008151	7	72085452	72106243
A7	OTTHUMT00007006556			
	Hs_7_c5085			
	mbhnh_h_71200968			
	_72100967_m			
	_133605736_13			
	WBSCR20A.2			
	WBSCR20A			
A7	ENST00000308082	7	72111678	72127258
A7	OTTHUMT00007007030	7	72119594	72129318
A7	ENST00000310326	7	72129323	72134901
		7	72129324	72134920

TABLE 3 (Continued)

A7	ENSESTT000000041279		7	72129920	72134917
A7	ENSESTT000000041278		7	72130393	72133598
A7	ENSESTT000000041280		7	72130841	72134862
A7	ENST00000333149	NM_178125	7	72138632	72154182
A7	OTTHUMT00007007384	Hs_7_c1089	7	72139056	72150837
A7	ENSESTT000000041277		7	72139434	72143038
A7	ENSESTT000000041276		7	72139434	72144953
A7	ENSESTT000000041275		7	72139434	72151653
A7	OTTHUMT00007007413	Hs_7_c1090	7	72140207	72141310
A7	ENST00000252037	FKBP6	7	72154529	72168994
A7	OTTHUMT00007006557	mbhmh_h_71200968			
		72100967_m			
		133605736_13			
A7	ENSESTT000000041233		7	72154529	72168994
A7	ENSESTT000000041232		7	72156394	72184728
A7	ENSESTT000000041234		7	72156394	72184733
A7	OTTHUMT00007006375	FZD9	7	72157790	72168998
A7	ENST00000265756	BAZ1B	7	72260410	72262589
A7	OTTHUMT00007007171	BAZ1B	7	72266830	72348646
A7	ENSESTT000000041274		7	72266830	72348712
A7	ENSESTT000000041273		7	72268726	72273720
A7	ENSESTT000000041272		7	72277272	72303421
A7	ENSESTT000000041271		7	72304601	72348524
A7	ENSESTT000000041266		7	72304601	72348733
A7	ENST00000223368		7	72362783	72383988
A7	OTTHUMT00007006736	BCL7B	7	72362783	72384121
A7	ENSESTT000000041269	BCL7B	7	72362783	72384121
A7	ENSESTT000000041264		7	72363456	72383648
A7	ENSESTT000000041263		7	72363456	72384093
A7	ENSESTT000000041267		7	72363469	72384120
A7	ENSESTT000000041270		7	72363476	72383988
A7	ENSESTT000000041268		7	72363528	72383646
A7	ENSESTT000000041265		7	72363620	72383668
A7	ENSESTT000000041262		7	72363620	72384016
			7	72363722	72384156

TABLE 3 (Continued)

A7	OTTHUMT000007006751	TBL2	7	72396096	72405069
A7	ENST00000275621	TBL2	7	72396099	72405018
A7	ENSESTT00000041260		7	72396857	72405034
A7	ENSESTT00000041261		7	72396857	72405034
A7	ENST00000305632	NM_032988	7	72403031	72404976
A7	ENST00000243720	WBSR14	7	72419621	72450967
A7	OTTHUMT00007006613	WBSR14	7	72419621	72450967
A7	ENSESTT00000041259		7	72420796	72422929
A7	ENST00000313375	WBSR14	7	72422850	72450919
A7	ENSESTT00000041257		7	72424072	72450970
A7	ENSESTT00000041258		7	72433738	72450946
A7	OTTHUMT00007007252	mbhmh_h_71200968			
		72100967_m			
		133605736_13			
		WBSR24	7	72478242	72507686
A7	ENST00000324941		7	72494272	72497803
A7	ENSESTT00000041235		7	72494282	72497608
A7	OTTHUMT00007006614	WBSR18	7	72508698	72509869
A7	ENST00000324842	WBSR18	7	72509170	72509850
A7	ENSESTT00000041236		7	72510028	72524583
A7	ENST00000265758	WBSR22	7	72510034	72524313
A7	OTTHUMT00007006630	WBSR22	7	72510034	72524639
A7	ENSESTT00000041237		7	72510055	72524583
A7	ENSESTT00000041238		7	72510072	72524583
A7	ENSESTT00000041239		7	72510232	72519061
A7	ENSESTT00000041240		7	72517339	72524579
A7	ENSESTT00000041241		7	72519822	72524424
A7	ENSESTT00000041242		7	72520410	72524569
A7	ENST00000222812	STX1A	7	72525637	72546059
A7	OTTHUMT00007006498	STX1A	7	72525637	72546086
A7	ENSESTT00000041256		7	72526715	72530923
A7	ENSESTT00000041252		7	72526715	72546118
A7	ENSESTT00000041253		7	72526718	72546118
A7	ENSESTT00000041254		7	72530608	72546099
A7	ENSESTT00000041255		7	72531576	72546069

TABLE 3 (Continued)

A7	OTTHUMT00007006628	WBSCR21	7	72562521	72565258
A7	ENST00000322862	NM_148914	7	72562544	72565281
A7	ENST00000222800	WBSCR21	7	72562986	72565224
A7	OTTHUMT00007006748	CLDN3	7	72595424	72596673
A7	ENST00000297926	CLDN3	7	72595814	72596476
A7	OTTHUMT00007006403	nh_nm_gil18182840	7	72655639	72656526
A7	OTTHUMT00007006749	CLDN4	7	72657433	72659112
A7	ENSESTT00000041251		7	72661015	72666499
A7	ENST00000297873	NM_152559	7	72661023	72668960
A7	OTTHUMT00007007226	mbhmh_nh_h_71200968			
		72100967_m			
		_132805737	7	72661138	72668567
A7	ENSESTT00000041243		7	72687586	72692202
A7	ENST00000320531	NM_182504	7	72687586	72692314
A7	OTTHUMT00007007227	mbhmh_nh_h_71200968			
		72100967_m			
		_132805737	7	72691651	72707065
A7	ENSESTT00000041244		7	72854539	72869441
A7	ENST00000320425	ELN	7	72854615	72895127
A7	ENST00000309678	Q14235	7	72854615	72895127
A7	ENST00000320492	Q8NB14	7	72854615	72895127
A7	OTTHUMT00007006288	ELN	7	72854615	72895127
A7	ENST00000320399	Q8N2G0	7	72854615	72896103
A7	ENST00000252034	O15337	7	72861793	72887565
A7	ENSESTT00000041245		7	72879278	72882774
A7	ENSESTT00000041246		7	72883099	72889621
A7	ENSESTT00000041247		7	72892119	72895391
A7	ENST00000265761	LIMK1	7	72910253	72948951
A7	OTTHUMT00007006772	LIMK1	7	72910253	72948951
A7	ENSESTT00000041248		7	72919602	72925577
A7	ENSESTT00000041249		7	72932555	72947826
A7	ENSESTT00000041250		7	72938074	72947826
A7	ENSESTT00000036020		7	73000780	73021942
A7	ENSESTT00000036019		7	73000780	73023522

TABLE 3 (Continued)

A7	ENSESTT000000036021	7	73000783	73016740
A7	ENSESTT000000036016	7	73000792	73021897
A7	ENSESTT000000036017	7	73000792	73021897
A7	ENST00000265754	7	73000803	73023526
A7	OTTHUMT00007006349	7	73000803	73023526
A7	ENST00000265753	7	73000811	73021735
A7	ENSESTT000000036018	7	73000834	73023522
A7	ENSESTT000000036027	7	73036361	73046683
A7	ENST00000309368	7	73036372	73056254
A7	OTTHUMT00007006353	7	73036372	73056260
A7	ENSESTT000000036028	7	73036409	73047047
A7	ENSESTT000000036029	7	73036413	73055741
A7	ENSESTT000000036030	7	73036479	73055741
A7	ENSESTT000000036031	7	73036487	73056261
A7	ENSESTT000000036033	7	73041247	73055741
A7	ENSESTT000000036032	7	73041247	73056261
A7	ENSESTT000000036034	7	73042370	73055741
A7	ENST00000315652	7	73042403	73051169
A7	ENSESTT000000036035	7	73046885	73055741
A7	ENST00000055077	7	73057931	73080835
A7	OTTHUMT00007006563	7	73058100	73080829
A7	ENSESTT000000036108	7	73058332	73076209
A7	ENSESTT000000036107	7	73058332	73080717
A7	ENSESTT000000036106	7	73058332	73080816
A7	ENSESTT000000036105	7	73058332	73080827
A7	ENSESTT000000036103	7	73058332	73080835
A7	ENST00000275627	7	73058533	73080810
A7	ENSESTT000000036104	7	73058566	73080828
A7	OTTHUMT00007006304	7	73115902	73232362
A7	ENST00000275634	7	73143935	73227994
A7	ENST00000223398	7	73143974	73227994
A7	ENSESTT000000036039	7	73183000	73202399
A7	ENSESTT000000036040	7	73183883	73202625
A7	ENSESTT000000036041	7	73202736	73227995

TABLE 3 (Continued)

A7	ENSESTT000000036042	7	73203042	73227995
A7	ENSESTT000000036043	7	73212952	73230806
A7	OTTHUMT00007007106	7	73280217	73429013
A7	ENST00000265755	7	73334508	73428857
A7	ENSESTT000000036044	7	73346006	73381903
A7	ENSESTT000000036045	7	73350521	73364601
A7	OTTHUMT00007006631	7	73358718	73361335
A7	OTTHUMT00007007275	7	73360975	73361085
A7	ENSESTT000000036046	7	73373585	73429028
A7	ENSESTT000000036047	7	73427384	73429022
A7	ENSESTT000000036048	7	73484123	73517534
A7	OTTHUMT00007006793	7	73484127	73587111
A7	ENSESTT000000036102	7	73515362	73526731
A7	ENSESTT000000036051	7	73515542	73564552
A7	ENSESTT000000036052	7	73515542	73564552
A7	ENSESTT000000036049	7	73515542	73566495
A7	ENSESTT000000036050	7	73515542	73566495
A7	ENST000000324924	7	73515552	73585257
A7	ENST000000324906	7	73515552	73585257
A7	ENST000000324896	7	73515552	73587109
A7	ENSESTT000000036053	7	73517393	73555329
A7	ENSESTT000000036063	7	73569898	73575881
A7	ENSESTT000000036062	7	73569898	73581959
A7	ENSESTT000000036061	7	73569898	73585643
A7	ENSESTT000000036060	7	73569898	73586353
A7	ENSESTT000000036059	7	73569898	73586387
A7	ENSESTT000000036058	7	73569898	73586401
A7	ENSESTT000000036069	7	73571185	73575881
A7	ENSESTT000000036068	7	73571185	73581959
A7	ENSESTT000000036067	7	73571185	73585643
A7	ENSESTT000000036066	7	73571185	73586353
A7	ENSESTT000000036065	7	73571185	73586387
A7	ENSESTT000000036064	7	73571185	73586401
A7	ENSESTT000000036074	7	73572309	73581959

TABLE 3 (Continued)

A7	ENSESTT00000036073		7	73572309	73585643
A7	ENSESTT00000036072		7	73572309	73586353
A7	ENSESTT00000036071		7	73572309	73586387
A7	ENSESTT00000036070		7	73572309	73586401
A7	ENSESTT00000036075		7	73574439	73581959
A7	ENSESTT00000036076		7	73583165	73585027
A7	ENSESTT00000036077		7	73584379	73586387
A7	OTTHUMT00007006732	NCF1.2	7	73600398	73615746
A7	ENSESTT00000036086		7	73600417	73610049
A7	ENST00000289473	NCF1	7	73600468	73615593
A7	ENSESTT00000036087		7	73611674	73615748
A7	ENSESTT00000036088		7	73611704	73615748
A7	ENSESTT00000036089		7	73614408	73615753
A7	ENST00000302215	NM_032203	7	73622573	73679914
A7	OTTHUMT00007006446	mbhmh_H_NH0813J07			
A7	ENSESTT00000036101	_F171046.fgenes2.2	7	73623090	73663589
A7	OTTHUMT00007007215		7	73659841	73679927
A7	ENST00000308103	DKFZP434A0131.1	7	73706764	73718764
A7	OTTHUMT00007008153	NM_018991	7	73710352	73713295
A7	OTTHUMT00007007303	Hs_7_c5086	7	73711129	73713351
A7	ENST00000318547	Hs_7_c1127	7	73718511	73733865
A7	ENSESTT00000036090	PMS2L5	7	73718985	73733868
A7	ENSESTT00000036091		7	73718990	73726032
A7	ENST00000318568	Q16673	7	73719013	73733949
A7	ENSESTT00000036092		7	73722332	73729180
A7	ENST00000333385	Q86WY7	7	73726925	73728321
A7	OTTHUMT00007006291	mfhmh_chr7.73.013.a	7	73732679	73739325
A7	ENST00000328350		7	73733861	73770943
A7	ENST00000330313		7	73737708	73740340
A7	ENST00000332301		7	73791140	73844306
A7	ENSESTT00000036097		7	73791172	73850892
A7	ENST00000329959	WBSCR16	7	73868813	73883752
A7	ENSESTT00000036098		7	73869229	73901788
				73882190	73901764

TABLE 3 (Continued)

A7	ENSESTT000000036099		7	73889107	73901764
A7	ENSESTT000000036100		7	73892480	73901764
A7	ENST000000334260	Q86WX4	7	73920467	73954376
A7	ENSESTT000000036093		7	73920470	73940594
A7	ENST000000312575	NM_032203	7	73962893	73977192
A7	ENSESTT000000036094		7	73966809	73969279
A7	ENST000000297905		7	73984689	73999836
A7	ENSESTT000000036095		7	73990260	73999885
A7	ENSESTT000000036096		7	73990542	73999843
A7	ENSESTT000000037870		7	74013902	74027990
A7	ENSESTT000000037865		7	74013902	74029114
A7	ENSESTT000000037876		7	74013902	74030393
A7	ENSESTT000000037871		7	74013903	74027990
A7	ENSESTT000000037866		7	74013903	74029114
A7	ENSESTT000000037877		7	74013903	74030393
A7	ENSESTT000000037872		7	74013951	74027990
A7	ENSESTT000000037867		7	74013951	74029114
A7	ENSESTT000000037878		7	74013951	74030393
A7	ENSESTT000000037873		7	74014662	74027990
A7	ENSESTT000000037868		7	74014662	74029114
A7	ENSESTT000000037879		7	74014662	74030393
A7	ENSESTT000000037875		7	74018346	74025862
A7	ENSESTT000000037874		7	74018346	74027990
A7	ENSESTT000000037869		7	74018346	74029114
A7	ENSESTT000000037880		7	74018346	74030393
A7	ENSESTT000000037864		7	74033799	74065179
A7	ENST000000335657	Q86WY7	7	74111817	74114021
A7	ENSESTT000000037828		7	74114121	74528229
A7	ENSESTT000000037860		7	74114936	74600365
A7	ENST000000329909		7	74115017	74124654
A7	ENST000000311576	PMS2L5	7	74115017	74126741
A7	ENSESTT000000037831		7	74378046	74402224
A7	ENSESTT000000037829		7	74386841	74402224
A7	ENSESTT000000037830		7	74400341	74402224

TABLE 3 (Continued)

A7	ENSESTT000000037832		7	74412873	74413761
A7	ENSESTT000000037833		7	74415176	74417728
A7	ENST000000317042	Q9P1E6	7	74415789	74416214
A7	OTTHUMT00007006787	mbhnh_h_72800966_ 73394042_m_ 132005738_13			
A7	ENST000000311251		7	74418388	74470222
A7	OTTHUMT00007007356	Hs_7_c1145	7	74419694	74479430
A7	ENST000000333996	Q86WY7	7	74523575	74584324
A7	ENST000000335396	Q86WY7	7	74524542	74556308
A7	ENST000000302439	PMS2L6	7	74526082	74528285
A7	ENSESTT000000037834		7	74526852	74541042
A7	ENSESTT000000037862		7	74528385	74556252
A7	ENST000000311139	PMS2L5	7	74529200	74566962
A7	ENST000000314850		7	74529281	74538934
A7	OTTHUMT00007008169	Hs_7_c5090	7	74529281	74541015
A7	ENSESTT000000037861		7	74529284	74600754
A7	ENST000000251624	PMS2L6	7	74538952	74567012
A7	ENSESTT000000037835		7	74554875	74569067
A7	ENST000000305928		7	74556408	74584271
A7	ENST000000335010		7	74557304	74569040
A7	ENSESTT000000037836	Q86WY7	7	74582125	74584327
A7	ENSESTT000000037863		7	74584427	74743294
A7	ENST000000310939		7	74585242	74594942
A7	ENSESTT000000037837		7	74585323	74600345
A7	ENSESTT000000037838		7	74600539	74603386
A7	OTTHUMT00007008170	Hs_7_c5091	7	74600635	74607984
A7	ENST000000325462	NM_018991	7	74605989	74608444
A7	OTTHUMT00007007218	DKFZP434A0131.2	7	74606045	74609003
A7	ENSESTT000000037840		7	74606957	74631908
A7	ENSESTT000000037839		7	74607712	74637304
A7	ENSESTT000000037841		7	74607712	74640405
A7	ENST000000275590	Q8WW08	7	74611418	74612259
A7	ENSESTT000000037859		7	74633749	74636644
				74634716	74636774

TABLE 3 (Continued)

A7	OTTHUMT000007006277	mbhnh_h_73557902 74457901_m_133948896_13	7	74634728	74636644
A7	ENST000000323819	Q86UV7	7	74636992	74646977
A7	OTTHUMT000007006661	mfhnh_h_73557902_74457901_m_133948896_13	7	74640307	74649026
A7	ENSESTT00000037842	Hs_7_c1152	7	74640495	74645112
A7	ENSESTT00000037843		7	74651721	74653100
A7	OTTHUMT000007007377		7	74651740	74657781
A7	ENSESTT00000037844		7	74651742	74656591
A7	ENSESTT00000037845		7	74652026	74657514
A7	ENST000000323788	NM_145645	7	74654800	74657968
A7	ENSESTT00000037846		7	74655026	74657893
A7	ENSESTT00000037847		7	74656958	74658035
A7	ENSESTT00000037848		7	74657213	74657787
A7	ENST000000257665	POM121	7	74658837	74684082
A7	ENSESTT00000037858		7	74659912	74663188
A7	OTTHUMT000007006280	mbhnh_h_73557902 74457901_m_133948896_13	7	74660168	74684082
A7	ENSESTT00000037857		7	74664350	74666568
A7	ENSESTT00000037856		7	74666904	74679035
A7	ENSESTT00000037855		7	74682449	74716115
A7	ENSESTT00000037854		7	74716469	74769374
A7	ENST000000301990		7	74736524	74745533
A7	OTTHUMT000007007168	mbhnh_ts.74.012.a	7	74738139	74744350
A7	OTTHUMT000007007383	Hs_7_c1157	7	74744346	74752527
A7	ENST000000248606	PMS2L3	7	74749246	74756200
A7	ENST000000301956	PMS2L9	7	74752342	74769228
A7	OTTHUMT000007007380	Hs_7_c1154	7	74753806	74769228
A7	ENSESTT00000037853		7	74757541	74769401
A7	OTTHUMT000007006447	HIP1	7	74775947	74840649
A7	ENSESTT00000037852		7	74779537	74786565

TABLE 3 (Continued)

A7	ENST000000320938	HIP1	7	74779582	74980306
A7	ENSESTT00000037851		7	74788329	74797481
A7	ENSESTT00000037850		7	74799047	74804723
A7	ENSESTT00000037849		7	74895820	74980379
A7	OTTHUMT00007007406	Hs_7_c1160	7	74980208	74980327
A7	ENST00000005180	CCL26	7	75010931	75013663
A7	ENSESTT00000040258		7	75011028	75031153
A7	OTTHUMT00007006539	SCYA26	7	75011100	75013583
A7	ENST00000222902	CCL24	7	75053203	75055122
A7	OTTHUMT00007006535	SCYA24	7	75053203	75055122
A7	OTTHUMT00007007412	Hs_7_c1163	7	75077073	75077548
A7	ENST00000006777	NM_020684	7	75120355	75130328
A7	OTTHUMT00007007126	NPD007	7	75120355	75134177
A7	ENSESTT00000040185		7	75120424	75130279
A7	ENSESTT00000040186		7	75120432	75130279
A7	ENSESTT00000040257		7	75120464	75130107
A7	ENST00000318622	Q9UDT1	7	75120490	75122833
A7	ENSESTT00000040187		7	75120579	75129992
A7	ENSESTT00000040195		7	75156536	75222052
A7	ENSESTT00000040194		7	75156536	75225046
A7	ENSESTT00000040192		7	75156536	75225268
A7	ENSESTT00000040193		7	75156536	75225268
A7	ENSESTT00000040188		7	75156536	75226369
A7	ENSESTT00000040189		7	75156536	75226369
A7	ENSESTT00000040190		7	75156536	75226369
A7	ENSESTT00000040191		7	75156536	75226369
A7	ENSESTT00000040202		7	75156536	75226773
A7	ENSESTT00000040203		7	75156536	75226773
A7	OTTHUMT00007007414		7	75156536	75164746
A7	OTTHUMT00007006487	Hs_7_c1165	7	75164520	
		mbhmh_h_73557902_			
		74457901_m_			
		133948896_13			
A7	ENSESTT00000040200		7	75176809	75227888
A7	ENSESTT00000040199		7	75195386	75225046
			7	75195386	75225268

TABLE 3 (Continued)

A7	ENSESTT000000040197	7	75195386	75226369
A7	ENSESTT000000040198	7	75195386	75226369
A7	ENSESTT000000040196	7	75195386	75226773
A7	ENST00000265302	7	75195400	75227888
A7	ENSESTT000000040201	7	75223628	75226773
A7	OTTHUMT00007007077	7	75228396	75236042
A7	ENSESTT000000040252	7	75229120	75236046
A7	ENSESTT000000040253	7	75229129	75236046
A7	ENSESTT000000040254	7	75229182	75236046
A7	ENSESTT000000040255	7	75229333	75236046
A7	ENSESTT000000040256	7	75229371	75236046
A7	ENSESTT000000040248	7	75237744	75255296
A7	ENSESTT000000040244	7	75237744	75289349
A7	ENSESTT000000040245	7	75237744	75289349
A7	ENSESTT000000040238	7	75237744	75289395
A7	ENSESTT000000040239	7	75237744	75289395
A7	ENSESTT000000040240	7	75237744	75289395
A7	ENSESTT000000040236	7	75237744	75295682
A7	ENSESTT000000040251	7	75237749	75242410
A7	ENSESTT000000040250	7	75237749	75246817
A7	ENSESTT000000040249	7	75237749	75255296
A7	ENSESTT000000040247	7	75237749	75263402
A7	ENSESTT000000040246	7	75237749	75289349
A7	ENSESTT000000040241	7	75237749	75289395
A7	ENSESTT000000040242	7	75237749	75289395
A7	OTTHUMT00007006727	7	75237749	75289410
A7	ENSESTT000000040237	7	75237749	75295682
A7	ENST00000248600	7	75237875	75271930
A7	ENSESTT000000040243	7	75255146	75289370
A7	ENST00000315790	7	75288063	75288355
A7	ENSESTT000000040204	7	75289457	75308009
A7	ENST00000315758	7	75289482	75308017
A7	OTTHUMT00007007151	7	75289482	75308020
A7	ENSESTT000000040205	7	75289536	75308009

TABLE 3 (Continued)

A7	ENSESTT00000040206			7	75305745	75308009
A7	OTTHUMT00007007750	Hs_7_c3073		7	75312957	75313204
A7	OTTHUMT00007007439	Hs_7_c1171		7	75315857	75316216
A7	OTTHUMT00007008045	Hs_7_c5123		7	75340845	75342813
A7	OTTHUMT00007007443	Hs_7_c1174		7	75349841	75373549
A7	ENST00000332057			7	75354317	75354842
A7	OTTHUMT00007007445	Hs_7_c1175		7	75354317	75354842
A7	OTTHUMT00007007446	Hs_7_c1176		7	75390863	75390964
A7	OTTHUMT00007007447	Hs_7_c1177		7	75415144	75418535
A7	ENSESTT00000040208			7	75443300	75501454
A7	ENSESTT00000040207			7	75443300	75506790
A7	ENSESTT00000040209			7	75443307	75506790
A7	ENSESTT00000040210			7	75476389	75501454
A7	ENST00000326382			7	75476473	75522894
A7	OTTHUMT00007006504	mbhmb_h_73557902				
		74457901_m				
		133948896_13				
A7	ENSESTT00000040211			7	75476474	75527249
A7	ENSESTT00000040212			7	75514460	75522893
A7	ENST00000326284			7	75523140	75527181
A7	ENSESTT00000040213	NM_153043		7	75524053	75528692
A7	OTTHUMT00007006552	HSPB1		7	75543994	75545679
A7	ENST00000248553	HSPB1		7	75544012	75545701
A7	OTTHUMT00007006186	YWHAG		7	75544012	75545702
A7	ENST00000307630	YWHAG		7	75568205	75600405
A7	ENSESTT00000040235			7	75570983	75600214
A7	ENST00000325070			7	75570997	75600397
A7	ENST00000275560			7	75602536	75603507
A7	OTTHUMT00007006188	SRCRB4D		7	75630735	75651095
A7	ENSESTT00000040234	SRCRB4D		7	75630735	75651101
A7	ENST00000297799			7	75631056	75638966
A7	OTTHUMT00007006555	Q96BF5		7	75631465	75635032
A7	ENST00000257652	ZP3A		7	75666341	75683471
A7	ENSESTT00000040214	ZP3		7	75666371	75683468
				7	75670977	75683476

TABLE 3 (Continued)

A7	ENSESTT000000040215		7	75674328	75683368
A7	ENSESTT000000040216		7	75703078	75724019
A7	ENSESTT000000040217		7	75703114	75724170
A7	ENSESTT000000040218		7	75703116	75722103
A7	ENSESTT000000040219		7	75703123	75724122
A7	ENSESTT000000040220		7	75703136	75724190
A7	OTTHUMT00007006196	DTX2	7	75703141	75747397
A7	ENST00000324432	DTX2	7	75703143	75747007
A7	ENSESTT000000040221		7	75703158	75721985
A7	OTTHUMT00007007472	Hs_7_c1183	7	75711502	75712557
A7	ENST00000329896		7	75711568	75712530
A7	ENSESTT000000040222		7	75743571	75747401
A7	ENSESTT000000040223		7	75751969	75756864
A7	ENSESTT000000040224		7	75751972	75755467
A7	ENSESTT000000040225		7	75752017	75756483
A7	ENST00000334348	UPK3B	7	75752059	75756610
A7	ENST00000257632	UPK3B	7	75752059	75756657
A7	ENSESTT000000040226		7	75752161	75755394
A7	ENSESTT000000040227		7	75752941	75756621
A7	ENST00000333674		7	75763339	75774103
A7	OTTHUMT00007007476	Hs_7_c1187	7	75765921	75774100
A7	ENST00000332397		7	75772915	75781708
A7	OTTHUMT00007007156	mbhmh_H_DJ1158B01			
		F218045.			
		fgenes2.2	7	75774096	75782865
A7	ENSESTT000000040233		7	75775379	75781751
A7	ENST00000328339		7	75777575	75780226
A7	OTTHUMT00007007474		7	75791024	75792928
A7	ENSESTT000000040229	Hs_7_c1186	7	75851392	75867091
A7	ENSESTT000000040228		7	75851392	75867499
A7	ENSESTT000000040232		7	75851392	75867499
A7	OTTHUMT00007006838	POMZP3	7	75851394	75868655
A7	ENST00000310842	POMZP3	7	75851570	75868652
A7	ENSESTT000000040230		7	75852858	75867011

TABLE 3 (Continued)

A7	ENSESTT00000040231			7	75859587	75868162
A7	OTTHUMT00007007515	Hs_7_c1194		7	75891805	75892303
A7	OTTHUMT00007007518	Hs_7_c1196		7	76201256	76245716
A7	OTTHUMT00007007520	Hs_7_c1197		7	76209601	76210656
A7	ENST00000331556			7	76209667	76210629
A7	ENSESTT00000037296			7	76214085	76218367
A7	ENST00000307569			7	76220023	76231777
A7	ENST00000162863	PMS2L11		7	76243584	76257202
A7	ENSESTT00000037258			7	76243673	76245780
A7	ENSESTT00000037261			7	76255577	76265170
A7	ENSESTT00000037259			7	76257204	76440006
A7	OTTHUMT00007007328	Hs_7_c1202		7	76260312	76295598
A7	ENST00000285792	Q86WY7		7	76263908	76269847
A7	ENSESTT00000037292			7	76264978	76266386
A7	OTTHUMT00007006602	mfmh_gw11359887				
		.75188365.75365376				
		.7.9e-				
A7	ENSESTT00000037291			7	76266095	76300760
A7	ENSESTT00000037295			7	76266148	76294084
A7	ENSESTT00000037294			7	76269559	76270744
A7	ENSESTT00000037293			7	76271927	76273767
A7	ENSESTT00000037290			7	76279424	76281262
A7	ENST00000330572			7	76294463	76300803
A7	OTTHUMT00007007330			7	76297956	76299277
A7	ENSESTT00000037289	Hs_7_c1203		7	76313155	76313732
A7	OTTHUMT00007006666	mbhmh_h_75248517		7	76325407	76363754
		76148516_m				
		19731738_198				
A7	ENSESTT00000037288			7	76330887	76352916
A7	ENST00000327285			7	76351350	76363761
A7	OTTHUMT00007007332			7	76356805	76357619
A7	ENSESTT00000037260	Hs_7_c1204		7	76356814	76357592
A7	OTTHUMT00007006412	mbax_nh_gil7389564		7	76364104	76409308
A7	ENST00000248598	FGL2		7	76437484	76441197
				7	76437495	76441207

[illegible]

TABLE 3 (Continued)

A7	ENSESTT000000037273		7	76878133	76881437
A7	ENSESTT000000037274		7	76878340	76880309
A7	ENSESTT000000037278		7	76900557	76937634
A7	ENSESTT000000037275		7	76910887	76912750
A7	ENSESTT000000037279		7	76925217	76937634
A7	ENSESTT000000037280		7	76925311	76937620
A7	ENST000000334955	Q86X48	7	76937838	76977836
A7	OTTHUMT00007006307	mbhnh_h_75248517			
		76148516_m			
		_18931739_198			
A7	ENSESTT000000037277		7	76937838	77020536
A7	ENSESTT000000037276		7	76977776	76991120
A7	ENSESTT000000031431		7	76990885	77010048
A7	OTTHUMT00007006265		7	77010043	77021059
A7	ENST00000257663	DC32	7	77035083	77039701
A7	ENSESTT000000031444	C7orf35	7	77035084	77039798
A7	ENSESTT000000031445		7	77035096	77039946
A7	OTTHUMT00007006310		7	77035258	77039797
		mbhnh_h_75248517			
		76148516_m			
		_18931739_198			
A7	ENST000000248550	Q8TBW4	7	77081624	77196246
A8	ENST000000256653	MAN1A2	7	77096101	77195265
A8	ENSESTT000000003501		1	117256452	117415542
A8	ENSESTT000000003500		1	117256479	117412324
A8	ENSESTT000000003502		1	117256479	117414355
A8	ENSESTT000000003523		1	117331232	117385841
A8	ENSESTT000000003503		1	117485833	117494713
A8	ENST000000328500	NM_017709	1	117494976	117512577
A8	ENST000000313132		1	117495052	117517367
A8	ENST000000334351		1	117529727	117530632
A8	ENSESTT000000003522	PNRC2	1	117667090	117667509
A8	ENSESTT000000003520		1	117667118	117667900
A8	ENSESTT000000003521		1	117759186	117818631
A8	ENST000000263166	GDAP2	1	117759281	117818631
			1	117759572	117818591

TABLE 3 (Continued)

A8	ENSESTT000000003504	1	117818779	117823687
A8	ENST00000309112	1	117822324	117848451
A8	ENST00000183319	1	117822324	117849059
A8	ENSESTT000000003505	1	117831482	117849104
A8	ENSESTT000000003518	1	117842855	117853814
A8	ENSESTT000000003515	1	117842859	117859122
A8	ENSESTT000000003519	1	117842865	117852907
A8	ENSESTT000000003517	1	117842865	117855703
A8	ENST00000286203	1	117842866	118074161
A8	ENSESTT000000003516	1	117842868	117855764
A8	ENSESTT000000003513	1	117861020	117880531
A8	ENSESTT000000003514	1	117862486	117876996
A8	ENSESTT000000003512	1	117885713	117905184
A8	ENSESTT000000003510	1	117917336	117943048
A8	ENSESTT000000003511	1	117920750	117928350
A8	ENSESTT000000003509	1	117943055	117962920
A8	ENSESTT000000003507	1	117943058	117970490
A8	ENSESTT000000003508	1	117962945	117970300
A8	ENSESTT000000003506	1	117974982	117976166
A8	ENSESTT000000003436	1	118039391	118074185
A8	ENST00000334368	1	118742261	118743277
A8	ENST00000207157	1	118772051	118820834
A8	ENSESTT000000003435	1	118889344	118890396
A8	ENSESTT000000003434	1	118889622	118890409
A8	ENST00000235521	1	118920227	119029659
A8	ENSESTT000000003433	1	118921825	118934670
A8	ENSESTT000000003432	1	118922024	119029623
A8	ENST00000333224	1	119015816	119016295
A8	ENSESTT000000003526	1	119035413	119036037
A8	ENST00000330630	1	119108318	119108923
A8	ENSESTT000000003527	1	119217196	119219818
A8	ENSESTT000000003528	1	119217256	119245186
A8	ENSESTT000000003529	1	119257783	119275698
A8	ENSESTT000000003531	1	119257783	119281249
Q9H141				
WDR3				
Q8NAZ1				
Q9UN81				
TBX15				
WARS2				

TABLE 3 (Continued)

A8	ENSESTT000000003530	1	119269568	119281244
A8	ENST000000325945	1	119270090	119282844
A8	ENST000000331050	1	119304149	119403649
A8	ENSESTT000000003533	1	119304154	119311277
A8	ENSESTT000000003532	1	119304154	119311779
A8	ENSESTT000000003534	1	119304167	119308609
A8	ENST000000303184	1	119304424	119311624
A8	ENST000000333709	1	119304427	119403649
A8	ENST000000332017	1	119304427	119404056
A8	ENST000000256586	1	119328005	119334823
A8	ENST000000286193	1	119356225	119362218
A8	ENST000000331024	1	119385611	119385839
A8	ENSESTT000000003535	1	119396243	119404058
A8	ENSESTT000000003536	1	119396244	119397374
A8	ENSESTT000000003537	1	119396322	119404058
A8	ENST000000235547	1	119396481	119403649
A8	ENST000000335580	1	119456897	119461071
A8	ENST000000331009	1	119485270	119485838
A8	ENST000000335229	1	119494238	119494381
A8	ENST000000271263	1	119511709	119512401
A8	ENSESTT000000003538	1	119600896	119633222
A8	ENSESTT000000003539	1	119600896	119633222
A8	ENST000000263167	1	119601027	119633206
A8	ENSESTT000000003540	1	119615847	119633222
A8	ENSESTT000000003541	1	119615847	119633222
A8	ENSESTT000000003542	1	119616052	119619075
A8	ENSESTT000000003543	1	119626114	119633222
A8	ENST000000256633	1	119637386	119657898
A8	ENSESTT000000003552	1	119637543	119657890
A8	ENSESTT000000003553	1	119648894	119657887
A8	ENSESTT000000003544	1	119653323	119657877
A8	ENST000000324032	1	119683168	119700499
A8	ENSESTT000000003551	1	119683421	119700465
A8	ENSESTT000000003550	1	119683593	119692170

TABLE 3 (Continued)

A8	ENST000000256585	REG4	1	119683622	119697773
A8	ENSESTT00000003549		1	119687553	119697870
A9	OTTHUMT000000606260	SLC26A8-001	6	35958152	36039212
A9	ENST000000229784	SLC26A8	6	35958327	36034339
A9	ENST000000310888	SLC26A8	6	35958532	36034339
A9	ENSESTT000000033005		6	36012429	36039125
A9	ENSESTT000000032935		6	36042425	36067456
A9	OTTHUMT000000606277	MAPK14-002	6	36042428	36123079
A9	OTTHUMT000000606276	MAPK14-001	6	36042428	36125390
A9	ENST000000229794	NM_139014	6	36042790	36122248
A9	ENST000000229795	MAPK14	6	36042790	36123079
A9	ENST000000310795	MAPK14	6	36042790	36123079
A9	ENSESTT000000032936		6	36090530	36124509
A9	OTTHUMT000000606258	dJ179N16.3-001	6	36106623	36107278
A9	OTTHUMT000000606270	MAPK13-005	6	36142441	36150464
A9	ENSESTT000000032938		6	36142441	36154698
A9	ENSESTT000000032937		6	36142441	36155902
A9	OTTHUMT000000606268	MAPK13-003	6	36144953	36154312
A9	OTTHUMT000000606266	MAPK13-001	6	36144953	36154697
A9	ENST000000211287	MAPK13	6	36145117	36154697
A9	ENSESTT000000032940		6	36145142	36154698
A9	ENSESTT000000032939		6	36145142	36155902
A9	ENSESTT000000032941		6	36145145	36151536
A9	ENSESTT000000032943		6	36145202	36154698
A9	ENSESTT000000032942		6	36145202	36155902
A9	ENSESTT000000032944		6	36145273	36146034
A9	OTTHUMT000000606269	MAPK13-004	6	36145295	36153839
A9	OTTHUMT000000606267	MAPK13-002	6	36145501	36151147
A9	OTTHUMT000000606280	BRPF3-001	6	36211405	36247418
A9	ENST000000322766	BRPF3	6	36211405	36247421
A9	ENSESTT000000032945		6	36212028	36215240
A9	ENSESTT000000032946		6	36215902	36224498
A9	OTTHUMT000000606281	BRPF3-002	6	36225130	36247418
A9	ENST000000211291	Q9NWM1	6	36225982	36245352

TABLE 3 (Continued)

A9	ENSESTT00000032947	6		36228665	36232584
A9	ENSESTT00000032948	6		36239919	36246148
A9	OTTHUMT00006006284	6	dJ50J22.1-001	36285116	36310051
A9	ENST00000312917	6	PNPLA1	36306032	36323227
A9	OTTHUMT00006006294	6	dJ50J22.5-001	36317034	36327443
A9	OTTHUMT00006006290	6	dJ50J22.3-001	36331805	36334066
A9	OTTHUMT00006006286	6	dJ50J22.2-001	36380826	36402415
A9	OTTHUMT00006006287	6	dJ50J22.2-002	36380826	36402415
A9	ENST00000229480	6	ETV7	36380827	36402349
A9	ENSESTT00000033001	6		36390551	36402400
A9	OTTHUMT00006006292	6	dJ50J22.4-001	36401463	36406626
A9	ENST00000316266	6	NM_152990	36405183	36415166
A9	OTTHUMT00006006296	6	dJ347L7.1-001	36415095	36457521
A9	ENSESTT00000032949	6		36457399	36458352
A9	ENST00000265344	6	C6orf69	36457399	36505168
A9	OTTHUMT00006006298	6	dJ108K11.3-001	36457619	36505775
A9	ENSESTT00000032950	6		36484759	36499460
A9	ENSESTT00000032952	6		36499410	36503191
A9	ENSESTT00000032951	6		36499410	36505772
A9	ENSESTT00000032953	6		36501514	36505772
A9	OTTHUMT00006006300	6	STK38-001	36508524	36562102
A9	ENST00000229812	6	STK38	36508531	36562102
A9	ENSESTT00000032999	6		36510468	36522221
A9	ENSESTT00000032996	6		36530077	36562102
A9	ENSESTT00000032955	6		36608994	36616435
A9	ENSESTT00000032954	6		36608994	36617545
A9	OTTHUMT00006006302	6	SFRS3-001	36609000	36618064
A9	OTTHUMT00006006303	6	SFRS3-002	36609023	36616672
A9	ENST00000244437	6	SFRS3	36611395	36617408
A9	ENST00000317631	6		36688401	36689903
A9	OTTHUMT00006006306	6	dJ193M11.1-001	36688449	36689902
A9	OTTHUMT00006012688	6	CDKN1A-005	36691160	36699143
A9	ENSESTT00000032956	6		36692420	36701950
A9	OTTHUMT00006012684	6	CDKN1A-001	36693290	36701971

TABLE 3 (Continued)

A9	ENST00000244741	CDKN1A	6	36693342	36701963
A9	OTTHUMT00006012685	CDKN1A-002	6	36693353	36700556
A9	ENSESTT00000032957		6	36693354	36701950
A9	OTTHUMT00006012687	CDKN1A-004	6	36693358	36699130
A9	OTTHUMT00006012686	CDKN1A-003	6	36693403	36695312
A9	ENSESTT00000032958		6	36693403	36695312
A9	OTTHUMT00006011804	dJ431A14.3-001	6	36737227	36743433
A9	ENST00000229824		6	36737257	36745385
A9	ENST00000310390	Q8TDV1	6	36751637	36752338
A9	OTTHUMT00006006308	dJ431A14.4-001	6	36751682	36752618
A9	OTTHUMT00006006311	dJ431A14.5-002	6	36755407	36772013
A9	ENST00000244751	CPNE5	6	36755410	36854008
A9	OTTHUMT00006006310	dJ431A14.5-001	6	36755410	36854633
A9	ENSESTT00000032989		6	36758313	36772015
A9	OTTHUMT00006006312	dJ431A14.5-003	6	36760019	36772013
A9	ENSESTT00000032990		6	36760019	36772013
A9	ENSESTT00000032987		6	36760019	36780337
A9	ENSESTT00000032988		6	36760024	36772025
A9	OTTHUMT00006006351	PPIL1-002	6	36869458	36873266
A9	OTTHUMT00006006350	PPIL1-001	6	36869458	36889655
A9	ENST00000244367	PPIL1	6	36869463	36889629
A9	ENSESTT00000032983		6	36870099	36889655
A9	ENSESTT00000032984		6	36870254	36886506
A9	OTTHUMT00006006316	dJ90K10.2-001	6	36886501	36939186
A9	OTTHUMT00006006319	dJ90K10.2-004	6	36900485	36931139
A9	OTTHUMT00006006317	dJ90K10.2-002	6	36900495	36938153
A9	OTTHUMT00006006318	dJ90K10.2-003	6	36900495	36938153
A9	ENST00000314503	C6orf89	6	36900495	36941175
A9	ENSESTT00000032959		6	36900540	36938610
A9	OTTHUMT00006006320	dJ90K10.2-005	6	36900544	36938203
A9	ENSESTT00000032960		6	36900558	36929229
A9	ENSESTT00000032961		6	36909132	36938610
A9	OTTHUMT00006006326	dJ90K10.3-001	6	36943210	36943499
A9	OTTHUMT00006006328	dJ90K10.4-001	6	36954718	36959306

TABLE 3 (Continued)

A9	ENST00000297048	PI16	6	36969064	36979463
A9	OTTHUMT00006006330	dJ90K10.5-001	6	36969064	36979468
A9	ENSESTT00000032962		6	36969360	36974006
A9	ENSESTT00000032963		6	36969368	36978833
A9	ENSESTT00000032964		6	36969383	36978833
A9	OTTHUMT00006006331	dJ90K10.5-002	6	36977621	36979298
A9	OTTHUMT00006006335	dJ90K10.6-002	6	36982772	36991863
A9	OTTHUMT00006006341	dJ90K10.6-008	6	36982772	37000929
A9	OTTHUMT00006006334	dJ90K10.6-001	6	36982772	37000929
A9	ENSESTT00000032969		6	36983213	36992788
A9	ENSESTT00000032965		6	36983213	37000795
A9	ENSESTT00000032966		6	36983310	37000795
A9	ENSESTT00000032967		6	36983310	37000795
A9	OTTHUMT00006006340	dJ90K10.6-007	6	36983368	37000612
A9	ENST00000259958	MTCH1	6	36983368	37000747
A9	OTTHUMT00006006337	dJ90K10.6-004	6	36983391	36985547
A9	OTTHUMT00006006336	dJ90K10.6-003	6	36983543	36992304
A9	OTTHUMT00006006338	dJ90K10.6-005	6	36984097	36987385
A9	ENSESTT00000032968		6	36984669	37000795
A9	OTTHUMT00006006339	dJ90K10.6-006	6	36984687	36987307
A9	OTTHUMT00006006356	FGD2-001	6	37020277	37042929
A9	ENSESTT00000035539		6	37020289	37026654
A9	ENSESTT00000035540		6	37020301	37028317
A9	ENST00000274963	FGD2	6	37020330	37043169
A9	ENSESTT00000035541		6	37040439	37042882
A9	OTTHUMT00006006354	dJ405J24.2-001	6	37059462	37060032
A9	ENST00000297147	O95101	6	37059560	37059820
A9	OTTHUMT00006006358	dJ441G21.1-001	6	37105853	37106493
A9	ENST00000310055		6	37105943	37106437
A9	ENSESTT00000035542		6	37184786	37185779
A9	ENSESTT00000035543		6	37184786	37185779
A9	OTTHUMT00006012708	PIM1-003	6	37184834	37190057
A9	ENST00000259722	PIM1	6	37184841	37190057
A9	ENSESTT00000035544		6	37185789	37190059

TABLE 3 (Continued)

A9	OTTHUMT00006012709	PIM1-004	6	37187099	37188878
A9	ENSESTT00000035545		6	37187103	37190059
A9	OTTHUMT00006012706	PIM1-001	6	37187125	37188943
A9	ENSESTT00000035546		6	37187125	37190059
A9	OTTHUMT00006012707	PIM1-002	6	37187627	37190057
A9	OTTHUMT00006006360	dJ355M6.2-001	6	37226811	37272786
A9	ENST00000316899	Q8TC54	6	37226812	37233661
A9	OTTHUMT00006006361	dJ355M6.2-002	6	37227067	37272267
A9	ENST00000316909	NM_145316	6	37229829	37233661
A9	ENSESTT00000035577		6	37233261	37272786
A9	OTTHUMT00006006364	dJ744I24.2-001	6	37272403	37347601
A9	ENSESTT00000035547		6	37272498	37294209
A9	ENST00000229492	C6orf197	6	37298967	37347600
A9	ENSESTT00000035548		6	37331324	37347601
A9	ENSESTT00000035549		6	37331816	37339289
A9	OTTHUMT00006006366	RNF8-001	6	37368684	37409364
A9	ENSESTT00000035550		6	37368716	37386205
A9	ENST00000229866	RNF8	6	37368796	37395990
A9	ENSESTT00000035551		6	37383509	37405872
A9	OTTHUMT00006006367	RNF8-002	6	37383520	37391647
A9	ENSESTT00000035554		6	37383557	37405862
A9	ENSESTT00000035552		6	37383557	37405872
A9	ENSESTT00000035553		6	37383557	37405872
A9	ENSESTT00000035555		6	37391555	37405872
A9	ENSESTT00000035556		6	37447848	37474233
A9	OTTHUMT00006006384	dJ153P14.1-009	6	37447850	37458714
A9	ENSESTT00000035557		6	37447850	37474233
A9	OTTHUMT00006006377	dJ153P14.1-002	6	37447851	37476692
A9	OTTHUMT00006006376	dJ153P14.1-001	6	37447851	37496137
A9	ENST00000259729	NM_015050	6	37450261	37496137
A9	OTTHUMT00006006383	dJ153P14.1-008	6	37467109	37473320
A9	ENSESTT00000035558		6	37474283	37488203
A9	OTTHUMT00006006378	dJ153P14.1-003	6	37474290	37476703
A9	ENSESTT00000035559		6	37474290	37476703

TABLE 3 (Continued)

A9	OTTHUMT00006006380	dJ153P14.1-005	6	37477502	3749590
A9	OTTHUMT00006006379	dJ153P14.1-004	6	37488199	37493826
A9	ENSESTT00000035560		6	37489154	37496138
A9	ENSESTT00000035561		6	37489159	37493872
A9	OTTHUMT00006006382	dJ153P14.1-007	6	37489950	37497458
A9	ENSESTT00000035562		6	37489950	37497460
A9	OTTHUMT00006006381	dJ153P14.1-006	6	37489976	37495777
A9	OTTHUMT00006006394	dJ153P14.2-001	6	37497551	37514553
A9	ENSESTT00000035575		6	37497563	37514525
A9	ENST00000259975	Q9P0B6	6	37497563	37514553
A9	ENSESTT00000035576		6	37497569	37499495
A9	ENSESTT00000035574		6	37497716	37514544
A9	OTTHUMT00006006395	dJ153P14.2-002	6	37497716	37514553
A9	OTTHUMT00006006370	dJ153P14.3-001	6	37558184	37561386
A9	ENSESTT00000035573		6	37558184	37561393
A9	OTTHUMT00006006372	dJ153P14.4-001	6	37561183	37562345
A9	ENSESTT00000035563		6	37564634	37565497
A9	OTTHUMT00006006374	dJ153P14.5-001	6	37564635	37565491
A9	ENSESTT00000035571		6	37651734	37660878
A9	OTTHUMT00006006400	dJ402N21.2-001	6	37651734	37669174
A9	ENST00000297153	MDGA1	6	37651999	37711442
A9	ENST00000229875	Q8NBE3	6	37652690	37660859
A9	ENSESTT00000035572		6	37653259	37656528
A9	ENSESTT00000035568		6	37663817	37669088
A9	ENSESTT00000035570		6	37664502	37666973
A9	ENSESTT00000035569		6	37664502	37669088
A9	OTTHUMT00006006398	dJ402N21.1-001	6	37670396	37711576
A9	ENSESTT00000035567		6	37672943	37711576
A9	OTTHUMT00006006402	dJ441A12.1-001	6	37830408	37833849
A9	ENSESTT00000035566		6	37833212	37833973
A9	ENSESTT00000035564		6	37834162	37944634
A9	OTTHUMT00006006406	TEX27-001	6	37834162	38169252
A9	ENSESTT00000035565		6	37834188	38166902
A9	ENST00000287218	TEX27	6	37834577	38167020

TABLE 3 (Continued)

A9	OTTHUMT00006006407	TEX27-002	6	37944570	38097088
A9	ENSESTT0000028267		6	38016900	38018551
A9	OTTHUMT00006006404	bA420A21.1-001	6	38017463	38017944
A9	OTTHUMT00006006408	TEX27-003	6	38076242	38077291
A9	ENSESTT0000028247		6	38076350	38168417
A9	OTTHUMT00006006409	TEX27-004	6	38131203	38156962
A9	OTTHUMT00006006414	dJ295F6.2-001	6	38177432	38178435
A9	OTTHUMT00006006425	dJ322I12.1-004	6	38185948	38654445
A9	OTTHUMT00006006416	dJ322I12.2-001	6	38188304	38191924
A9	OTTHUMT00006006426	dJ322I12.1-005	6	38189588	38359724
A9	ENSESTT0000028266		6	38189682	38271074
A9	ENST0000320902	Q8NAH5	6	38193995	38194495
A9	OTTHUMT00006006423	dJ322I12.1-002	6	38302912	38594901
A9	ENSESTT0000028248		6	38496227	38497741
A9	OTTHUMT00006006418	bA430C17.1-001	6	38496323	38497162
A9	OTTHUMT00006006422	dJ322I12.1-001	6	38592231	38610698
A9	OTTHUMT00006006420	dJ319M7.2-001	6	38601954	38603160
A9	ENST00000328403	BTBD9	6	38607118	38612725
A9	OTTHUMT00006006424	dJ322I12.1-003	6	38608899	38654542
A9	OTTHUMT00006006435	GLO1-002	6	38690574	38697846
A9	OTTHUMT00006006434	GLO1-001	6	38690574	38717772
A9	ENST00000244746	GLO1	6	38690575	38717772
A9	ENSESTT0000028264		6	38690577	38717784
A9	ENSESTT0000028262		6	38691212	38699147
A9	ENSESTT0000028258		6	38691212	38717784
A9	ENSESTT0000028265		6	38691212	38717784
A9	ENSESTT0000028263		6	38691365	38696733
A9	ENSESTT0000028259		6	38696639	38717784
A9	ENSESTT0000028260		6	38696641	38717784
A9	ENSESTT0000028261		6	38697434	38717784
A9	OTTHUMT00006006432	dJ503A6.2-001	6	38728682	38729848
A9	ENSESTT0000028257		6	38728682	38729848
A9	ENST00000327475	Q8IU65	6	38729972	38749145
A9	OTTHUMT00006012038	DNAH8-003	6	38737477	38986711

TABLE 3 (Continued)

A9	OTTHUMT00006012037	DNAH8-002	6	38737477	39045150
A9	OTTHUMT00006012036	DNAH8-001	6	38737753	39045156
A9	ENST00000244699	DNAH8	6	38749146	39045422
A9	OTTHUMT00006011850	dJ217P22.2-001	6	38777536	38779325
A9	ENSESTT00000028249		6	38872332	38878623
A9	OTTHUMT00006012039	DNAH8-004	6	38878600	38885121
A9	ENSESTT00000028250		6	38887623	38888176
A9	OTTHUMT00006006438	dJ207H1.3-001	6	38937660	38946002
A9	OTTHUMT00006006439	dJ207H1.3-002	6	38937660	38967730
A9	ENSESTT00000028255		6	38939657	38948048
A9	ENSESTT00000028251		6	38940722	38944241
A9	OTTHUMT00006011974	dJ207H1.2-001	6	38942662	38942784
A9	OTTHUMT00006006440	dJ207H1.3-003	6	38943981	38947548
A9	ENSESTT00000028256		6	38943981	38947548
A9	ENSESTT00000028254		6	38958559	38967720
A9	ENSESTT00000028252		6	38966101	38988421
A9	ENSESTT00000028253		6	38998885	39027120
A9	ENSESTT00000028268		6	39027083	39045160
A9	OTTHUMT00006006452	dJ202I21.3-001	6	39054234	39054616
A9	OTTHUMT00006006444	GLP1R-001	6	39063429	39102374
A9	ENST00000229900	GLP1R	6	39063472	39100704
A9	ENSESTT00000028298		6	39118691	39124040
A9	ENSESTT00000028296		6	39118691	39129820
A9	OTTHUMT00006006446	dJ202I21.1-001	6	39118695	39124203
A9	OTTHUMT00006006448	dJ202I21.1-003	6	39118695	39129820
A9	ENST00000229903	C6orf64	6	39119524	39129720
A9	OTTHUMT00006006454	dJ202I21.5-001	6	39124952	39127583
A9	OTTHUMT00006006447	dJ202I21.1-002	6	39127706	39129702
A9	ENSESTT00000028297		6	39127885	39129702
A9	OTTHUMT00006006456	KCNK5-001	6	39203604	39244081
A9	ENST00000297169	KCNK5	6	39205521	39243742
A9	ENSESTT00000028294		6	39205943	39243759
A9	ENSESTT00000028295		6	39208772	39243759
A9	OTTHUMT00006006464	KCNK17-001	6	39313632	39329053

TABLE 3 (Continued)

A9	ENSESTT00000028293	6		39314030	39315137
A9	ENSESTT00000028292	6		39314058	39319209
A9	ENST00000244759	6	KCNK17	39314058	39328951
A9	OTTHUMT00006006462	6	KCNK16-001	39329336	39337171
A9	ENSESTT00000028290	6		39329579	39337599
A9	ENST00000211196	6	KCNK16	39329633	39337171
A9	ENSESTT00000028291	6		39332507	39337185
A9	ENSESTT00000028289	6		39350785	39358362
A9	OTTHUMT00006006460	6	dJ137F1.4-001	39350785	39400304
A9	ENST00000297170	6	C6orf102	39358338	39445790
A9	ENST00000229913	6	Q86T87	39358338	39554716
A9	OTTHUMT00006006458	6	dJ137F1.3-001	39368378	39368803
A9	OTTHUMT00006006466	6	dJ188D3.1-001	39434570	39445946
A9	OTTHUMT00006006470	6	dJ1043E3.1-001	39554634	39740037
A9	ENSESTT00000028286	6		39554831	39599605
A9	ENSESTT00000028284	6		39554831	39601027
A9	OTTHUMT00006006472	6	dJ1043E3.1-003	39559134	39592907
A9	ENST00000287152	6		39559160	39739941
A9	ENSESTT00000028288	6		39559179	39592907
A9	ENSESTT00000028285	6		39559179	39600971
A9	OTTHUMT00006006468	6	dJ1043E3.2-001	39568448	39569574
A9	ENSESTT00000028287	6		39597804	39599586
A9	OTTHUMT00006006471	6	dJ1043E3.1-002	39597806	39610891
A9	ENSESTT00000028283	6		39610746	39689117
A9	OTTHUMT00006006473	6	dJ1043E3.1-004	39705830	39729590
A9	ENSESTT00000028282	6		39706266	39739928
A9	ENSESTT00000028269	6		39807005	39879702
A9	ENST00000274867	6	DAAM2	39807649	39919503
A9	ENSESTT00000028270	6		39836736	39879669
A9	ENSESTT00000028271	6		39863403	39875800
A9	OTTHUMT00006006489	6	dJ278E11.1-006	39870878	39876106
A9	OTTHUMT00006006485	6	dJ278E11.1-002	39870878	39882152
A9	OTTHUMT00006006484	6	dJ278E11.1-001	39870878	39919499
A9	OTTHUMT00006006486	6	dJ278E11.1-003	39882351	39919496

TABLE 3 (Continued)

A9	ENSESTT000000028272	6		39884968	39893094
A9	OTTHUMT00006006487	6	dJ278E11.1-004	39887977	39893404
A9	OTTHUMT00006006488	6	dJ278E11.1-005	39902036	39905992
A9	OTTHUMT00006006480	6	bA61I13.3-001	39903421	39911984
A9	OTTHUMT00006006481	6	bA61I13.3-002	39903505	39912011
A9	ENSESTT000000028281	6		39903505	39912011
A9	ENSESTT000000028273	6		39911507	39913571
A9	ENSESTT000000028274	6		39911802	39919761
A9	OTTHUMT00006006478	6	bA61I13.2-001	39911971	39914702
A9	ENSESTT000000028279	6		39917315	39919496
A9	ENSESTT000000028280	6		39917519	39918030
A9	OTTHUMT00006006504	6	MOCs1-005	39919690	39926973
A9	OTTHUMT00006006505	6	MOCs1-006	39919690	39927603
A9	OTTHUMT00006006506	6	MOCs1-007	39919690	39927603
A9	OTTHUMT00006006502	6	MOCs1-003	39919690	39941994
A9	OTTHUMT00006006500	6	MOCs1-001	39919690	39942310
A9	OTTHUMT00006006501	6	MOCs1-002	39919690	39949091
A9	OTTHUMT00006006507	6	MOCs1-008	39919690	39949106
A9	ENSESTT000000028275	6		39920144	39926919
A9	ENST00000274884	6	MOCs1	39920154	39949011
A9	ENST00000308559	6	MOCs1	39920988	39942172
A9	ENSESTT000000028278	6		39921368	39928029
A9	ENSESTT000000028276	6		39924433	39949106
A9	OTTHUMT00006006503	6	MOCs1-004	39926863	39947026
A9	ENSESTT000000028277	6		39941918	39949056
A9	ENST00000320371	6		39973005	39973427
A9	OTTHUMT00006006496	6		39973008	39973427
A9	OTTHUMT00006006498	6	dJ278E11.3-001	40007409	40014827
A9	ENST00000333628	6	dJ278E11.5-001	40014193	40014863
A9	OTTHUMT00006006516	6	bA552E20.1-001	40286160	40290831
A9	OTTHUMT00006006524	6	bA535K1.1-003	40349548	40394479
A9	OTTHUMT00006006525	6	bA535K1.1-004	40355059	40394479
A9	ENSESTT000000026515	6		40358936	40360627
A9	OTTHUMT00006006518	6	bA552E20.3-001	40358938	40360745

TABLE 3 (Continued)

A9	OTTHUMT00006006520	bA552E20.4-001	6	40373338	40384068
A9	OTTHUMT00006006522	bA535K1.1-001	6	40392931	40394479
A9	OTTHUMT00006006523	bA535K1.1-002	6	40392931	40394479
A9	ENSESTT00000026510		6	40392944	40394492
A9	ENSESTT00000026509		6	40393305	40394492
A9	OTTHUMT00006006532	bA535K1.2-001	6	40406180	40602059
A9	ENST00000287126	Q9ULH4	6	40406228	40601981
A9	ENSESTT00000026512		6	40447652	40601916
A9	OTTHUMT00006006530	bA121P10.1-001	6	40516225	40516987
A9	ENSESTT00000026514		6	40516225	40516987
A9	OTTHUMT00006006534	dJ462C17.1-001	6	40530930	40538527
A9	ENSESTT00000026513		6	40530930	40538527
A9	OTTHUMT00006006536	bA570K4.1-001	6	40728005	40729957
A9	ENSESTT00000026511		6	40728005	40729957
A10	ENSESTT00000052482		18	71312402	71313353
A10	ENSESTT00000052481		18	71536395	71551301
A10	ENSESTT00000052480		18	71962357	71963077
A10	ENSESTT00000056790		18	72048442	72054756
A10	ENSESTT00000056791		18	72098098	72099051
A10	ENST00000217537	Y222_HUMAN	18	72199207	72334123
A10	ENSESTT00000056807		18	72201199	72217929
A10	ENSESTT00000056806		18	72201199	72218100
A10	ENSESTT00000056792		18	72276438	72279133
A10	ENSESTT00000056793		18	72326067	72326639
A10	ENSESTT00000056794		18	72367851	72401147
A10	ENSESTT00000056795		18	72688458	72707773
A10	ENST00000253159	ZNF236	18	72688458	72774998
A10	ENST00000320610	ZNF236	18	72688458	72807272
A10	ENSESTT00000056797		18	72717002	72734201
A10	ENSESTT00000056796		18	72717002	72734313
A10	ENSESTT00000056798		18	72737983	72747435
A10	ENSESTT00000056799		18	72815875	72819321
A10	ENST00000318747	MBP	18	72817767	72855988
A10	ENSESTT00000056804		18	72819098	72855989

TABLE 3 (Continued)

A10	ENSESTT000000056803	18	72819230	72856028
A10	ENSESTT000000056805	18	72819273	72855988
A10	ENST00000281193	18	72819360	72828993
A10	ENSESTT000000056800	18	72820171	72823085
A10	ENSESTT000000056801	18	72820171	72823085
A10	ENSESTT000000056802	18	72855561	72905291
A10	ENST00000309607	18	72867119	72867493
A10	ENST00000299727	18	73088710	73109070
A10	ENSESTT000000052501	18	73089280	73095131
A10	ENSESTT000000052502	18	73092673	73095150
A10	ENSESTT000000052503	18	73461485	73463448
A10	ENSESTT000000052478	18	74655974	74657295
A10	ENSESTT000000052477	18	74836231	74837820
A10	ENST00000299466	18	74839252	74857165
A10	ENSESTT000000052474	18	74853768	74856489
A10	ENSESTT000000052475	18	74854402	74861654
A10	ENST00000307671	18	74928369	75236360
A10	ENSESTT000000052476	18	74928431	74972951
A10	ENSESTT000000065967	18	75162658	75191977
A10	ENSESTT000000065966	18	75162658	75191981
A10	ENSESTT000000065968	18	75195603	75237133
A10	ENSESTT000000065969	18	75203116	75204817
A10	ENSESTT000000065970	18	75203163	75237133
A10	ENST00000253506	18	75254749	75345913
A10	ENSESTT000000065971	18	75255250	75270171
A10	ENST00000329101	18	75259369	75345913
A10	ENSESTT000000065975	18	75270434	75311108
A10	ENSESTT000000065973	18	75270434	75327154
A10	ENSESTT000000065974	18	75270434	75327154
A10	ENSESTT000000065972	18	75270434	75345394
A10	ENSESTT000000065976	18	75306857	75310062
A10	ENSESTT000000065977	18	75307549	75310062
A10	ENSESTT000000065978	18	75310647	75327154
A10	ENST00000334423	18	75314345	75314808

GALR1

SALL3

ATP9B

NFATC1

NM_172387

TABLE 3 (Continued)

A10	ENST000000334083	18	75363755	75810501
A10	ENST000000333925	18	75363758	75550986
A10	ENSESTT000000065979	18	75386139	75387291
A10	ENSESTT000000066012	18	75386888	75388300
A10	ENSESTT000000066011	18	75403966	75404501
A10	ENST000000327986	18	75415199	75415865
A10	ENST000000317008	18	75500963	75538593
A10	ENST000000299543	18	75538778	75613484
A10	ENST00000075430	18	75538925	75595497
A10	ENSESTT000000066010	18	75561698	75562628
A10	ENSESTT000000065980	18	75563836	75573932
A10	ENSESTT000000065981	18	75573941	75613484
A10	ENSESTT000000065982	18	75588015	75613484
A10	ENSESTT000000065983	18	75594535	75613484
A10	ENST000000316249	18	75722645	75758793
A10	ENSESTT000000066009	18	75761442	75762272
A10	ENSESTT000000066008	18	75761446	75762510
A10	ENST000000316111	18	75761465	75810007
A10	ENSESTT000000066004	18	75762569	75809829
A10	ENSESTT000000066005	18	75762569	75809829
A10	ENSESTT000000066002	18	75762569	75809842
A10	ENSESTT000000065999	18	75762569	75809843
A10	ENSESTT000000066000	18	75762569	75809843
A10	ENSESTT000000066006	18	75762650	75809829
A10	ENSESTT000000066001	18	75762650	75809843
A10	ENST000000262199	18	75762953	75802393
A10	ENSESTT000000066003	18	75763093	75809836
A10	ENSESTT000000066007	18	75774508	75775293
A10	ENSESTT000000065984	18	75823637	75826139
A10	ENSESTT000000065998	18	75825557	75831889
A10	ENST000000269601	18	75831846	75847511
A10	ENSESTT000000065996	18	75832383	75836894
A10	ENSESTT000000065991	18	75832383	75847550
A10	ENSESTT000000065993	18	75832384	75847452

TABLE 3 (Continued)

A10	ENSESTT000000065995	18	75832396	75847330
A10	ENSESTT000000065994	18	75832490	75847391
A10	ENSESTT000000065997	18	75832541	75835766
A10	ENSESTT000000065992	18	75832715	75847514
A10	ENST00000306735	18	75893335	75905364
A10	ENSESTT000000065986	18	75893389	75901198
A10	ENSESTT000000065985	18	75893389	75905374
A10	ENSESTT000000065990	18	75893434	75905357
A10	ENST00000262197	18	75893473	75904914
A10	ENSESTT000000065987	18	75896424	75905374
A10	ENSESTT000000065988	18	75926233	75938117
A10	ENST00000262198	18	75966162	75997201
A10	ENSESTT000000065989	18	75989961	75992868
A10	ENSESTT000000052575	18	76004909	76006133
A10	ENST00000314741	18	76016631	76104208
A10	ENSESTT000000052576	18	76016997	76104406
A10	ENSESTT000000052577	18	76039710	76059638
A11	ENST00000319217.1	9	13096497	13240357
A11	ENST00000319198.3	9	13096497	13240357
A11	ENST00000276902.1	9	14077605	14297550
A11	ENST00000331870.1	9	14194247	14194570
A11	ENST00000324876.2	9	14607036	14683474
A11	ENST00000276911.1	9	14710088	14712670
A11	ENST00000297595.3	9	14727207	14900993
A11	ENST00000324457.3	9	14727207	14900993
A11	ENST00000297593.1	9	14727207	14900993
A11	ENST00000297615.2	9	15161561	15297250
A11	ENST00000336042.1	9	15161561	15297250
A11	ENST00000297627.1	9	15412732	15455830
A11	ENST00000336277.1	9	15412732	15455830
A11	ENST00000297635.1	9	15454067	15500982
A11	ENST00000285482.4	9	15542895	15613411
A11	ENST00000297641.1	9	15734586	15961895
A11	ENST00000318677.2	9	15734586	15961895
NM_024805				
Q8WZ65				
NM_014913				
PARD6G				
MPDZ				
MPDZ				
NFIB				
NM_178566				
CER1				
NM_144966				
NM_144966				
NM_144966				
NM_152574				
NM_152574				
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SNAPC3				
PSIP2				
NM_173550				
NM_173550				

TABLE 3 (Continued)

A11	ENST000000309604.2	NM_017637	9	16408579	16427061
A11	ENST000000317612.2	NM_017637	9	16408579	16427061
A11	ENST000000316584.1	NM_152576	9	16517183	16517287
A11	ENST000000297642.1	NM_017738	9	17125064	17485003
A11	ENST000000262360.2	NM_017738	9	17125064	17485003

WHAT IS CLAIMED IS:

1. A method for identifying an antineoplastic agent, comprising:
 - (a) contacting a test compound with a cell that expresses one or more
5 amplicons of Table 2 having an amplification ratio of at least 2.0; and
 - (b) determining a change in said amplification ratio due to said contacting;
wherein a change in said amplification ratio due to said contacting
indicates that said test compound has gene modulating activity
thereby identifying said test compound as a gene modulating agent.
10
2. The method of claim 1 wherein said change in expression is a decrease
in expression.
3. The method of claim 2 wherein said decrease in expression is a
15 decrease in copy number of the gene.
4. The method of claim 1 wherein said cell was genetically engineered to
express said amplicon.
- 20 5. A method for identifying an antineoplastic agent, comprising:
 - (a) contacting a test compound with a cell that expresses at least one
gene corresponding to a polynucleotide comprising a nucleotide sequence of
Genes 1 - 3049 of Figure 1 and under conditions promoting expression of said
gene; and
 - 25 (b) determining a change in expression of said gene as a result of said
contacting
wherein a change in expression indicates gene modulation thereby
identifying said test compound as a gene modulating agent.
- 30 6. The method of claim 5 wherein said change in expression is a decrease
in expression.

7. The method of claim 5 wherein said decrease in expression is a decrease in copy number of the gene.

5 8. The method of claim 5 wherein said gene comprises a nucleotide sequence of one of Genes 1 – 3049 of Figure 1.

9. The method of claim 5 wherein said cell was genetically engineered to express said gene.

10 10. A method for detecting the cancerous status of a cell, comprising detecting elevated expression in said cell of at least one gene corresponding to a polynucleotide comprising a nucleotide sequence of Genes 1 – 3049 of Figure 1 whereby such elevated expression is indicative of cancerous status of the cell.

15 11. The method of claim 10 wherein said elevated expression is an elevated copy number of the gene.

12. A method for identifying a compound as an anti-neoplastic agent, comprising:

20 (a) contacting a test compound with a polypeptide encoded by a gene selected from Genes 1 – 3049 of Figure 1,

(b) determining a change in a biological activity of said polypeptide due to said contacting,

25 wherein a change in activity indicates anti-neoplastic activity and thereby identifies such test compound as an agent having antineoplastic activity.

13. The method of claim 12 wherein said change in biological activity is a decrease in biological activity.

30 14. The method of claim 12 wherein said biological activity is an enzyme activity.

15. The method of claim 14 wherein said enzyme is selected from kinase, protease, peptidase, phosphodiesterase, phosphatase, dehydrogenase, reductase, carboxylase, transferase, deacetylase and polymerase.

5 16. The method of claim 15 wherein said kinase is a protein kinase.

17. The method of claim 15 wherein said kinase is a serine or threonine kinase.

10 18. The method of claim 15 wherein said kinase is a receptor tyrosine protein kinase.

19. The method of claim 15 wherein said protease is a serine protease, cysteine protease or aspartic acid protease.

15 20. The method of claim 15 wherein said transferase is a methyltransferase.

20 21. The method of claim 20 wherein said methyl transferase is a cytidine methyltransferase or an adenine methyltransferase.

22. The method of claim 15 wherein said deacetylase is a histone deacetylase.

25 23. The method of claim 11 wherein said carboxylase is a γ -carboxylase.

24. The method of claim 15 wherein said peptidase is a zinc peptidase.

30 25. The method of claim 15 wherein said polymerase is a DNA polymerase.

26. The method of claim 15 wherein said polymerase is a RNA polymerase.

5 27. The method of claim 12 wherein said biological activity is a membrane transport activity.

10 28. The method of claim 12 wherein said polypeptide is a cation channel protein, an anion channel protein, a gated-ion channel protein or an ABC transporter protein.

29. The method of claim 12 wherein said polypeptide is an integrin.

15 30. The method of claim 12 wherein said polypeptide is a Cytochrome P450 enzyme.

31. The method of claim 12 wherein said polypeptide is a nuclear hormone receptor.

20 32. The method of claim 12 wherein said biological activity is a receptor activity.

33. The method of claim 12 wherein said receptor is a G-protein-coupled receptor.

25 34. The method of claim 12 wherein said polypeptide is contained in a cell.

30 35. A method for identifying an anti-neoplastic agent comprising contacting a cancerous cell with a compound found to have anti-neoplastic activity in the method of claim 12 under conditions promoting the growth of said cell and detecting a change in the activity of said cancerous cell.

36. The method of claim 35 wherein said change in activity is a decrease in the rate of replication of said cancerous cell.

5 37. The method of claim 35 wherein said change in activity is a decrease in the total number of progeny cells that can be produced by said cancerous cell.

38. The method of claim 35 wherein said change in activity is a decrease in the number of times said cancerous cell can replicate.

10 39. The method of claim 35 wherein said change in activity is the death of said cancerous cell.

40. A method for treating cancer comprising contacting a cancerous cell with an agent first identified as having gene modulating activity using the method
15 of claim 1, 5, or 12 and in an amount effective to cause a reduction in cancerous activity of said cell.

41. The method of claim 40 wherein said cancerous cell is contacted *in vivo*.
20

42. The method of claim 40 wherein said reduction in cancerous activity is a decrease in the rate of proliferation of said cancerous cell.

43. The method of claim 40 wherein said reduction in cancerous activity is
25 the death of said cancerous cell.

44. The method of claim 40 wherein said cancer is a cancer of breast, colon, lung or prostate tissues.

30 45. A method for treating cancer comprising contacting a cancerous cell with an agent having affinity for an expression product of a gene corresponding

to a polynucleotide comprising a nucleotide sequence of Gene 1 – 3049 of Figure 1 and in an amount effective to cause a reduction in cancerous activity of said cell.

5 46. The method of claim 45 wherein said expression product is a polypeptide.

47. The method of claim 45 wherein said agent is an antibody.

10 48. A method for monitoring the progress of cancer therapy in a patient comprising monitoring in a patient undergoing cancer therapy the expression of a gene corresponding to a polypeptide having a sequence selected from Genes 1 – 3049 of Figure 1.

15 49. The method of claim 48 wherein said gene comprises a sequence of Gene 1 – 3049 of Figure 1.

50. The method of claim 48 wherein said cancer therapy is chemotherapy.

20 51. The method of claim 48 wherein said cancer is a cancer of breast, colon, lung or prostate tissues.

25 52. A method for determining the likelihood of success of cancer therapy in a patient, comprising monitoring in a patient undergoing cancer therapy the expression of a gene corresponding to a polynucleotide having a sequence of one or Genes 1 – 3049 of Figure 1 wherein a decrease in said expression prior to completion of said cancer therapy is indicative of a likelihood of success of said cancer therapy.

30 53. The method of claim 52 wherein said gene comprises a sequence of Gene 1-3049 of Figure 1.

54. The method of claim 52 wherein said cancer therapy is chemotherapy.

55. The method of claim 52 wherein said cancer is a cancer of breast, colon, lung or prostate tissues.

5

56. A method for producing test data with respect to the anti-neoplastic activity of a compound comprising:

(a) identifying a test compound as having anti-neoplastic activity using a method of claim 12;

10 (b) producing test data with respect to the anti-neoplastic activity of said test compound sufficient to identify the chemical structure of said test compound.

57. A method for determining the progress of a treatment for cancer in a patient afflicted therewith, following commencement of a cancer treatment on said patient, comprising:

15

(a) determining in said patient a change in expression of one or more genes corresponding to a polynucleotide comprising a nucleotide sequence of Gene 1 – 3049 of Figure 1; and

(b) determining a change in expression of said gene compared to expression of said one or more determined genes prior to commencement of said cancer treatment;

20

wherein said change in expression indicates progress of said treatment thereby determining the progress of said treatment.

58. The method of claim 57 wherein said change in expression is a decrease in expression and said decrease indicates success of said treatment.

25

59. A method for determining the progress of a treatment for cancer in a patient afflicted therewith, following commencement of a cancer treatment on said patient, comprising:

30

(a) determining in said patient a change in expression of one or more genes corresponding to a polynucleotide comprising a nucleotide sequence of Gene 1 – 3049 of Figure 1; and

5 (b) determining a change in expression of said gene compared to expression of said one or more determined genes prior to commencement of said cancer treatment;

wherein said change in expression indicates progress of said treatment thereby determining the progress of said treatment.

10 60. The method of claim 59 wherein said change in expression is a decrease in expression and said decrease indicates success of said treatment.

ABSTRACT

Methods for identifying antineoplastic agents by using their ability to modify expression of specific genes or the biological activity of polypeptides encoded by such genes, wherein said genes are located in specific chromosomal regions, called amplicons, or regions of interest, and the presence of such amplified regions within a cancerous cell, are disclosed. Also described are methods for diagnosing cancerous, or potentially cancerous, conditions using these methods. Also encompassed are methods involving determining the modulated expression of the genes in these regions of interest (ROIs), or amplicons, as pharmacodynamic/pharmacogenetic/surrogate markers and/or for patient profiling prior to accrual for clinical trials/treatments based on the identification of these genes as validated gene/drug targets in various cancer tissue types.

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FIGURE 1

Gene 1. >ENST00000334083 cDNA sequence

```
ACGCAGGGCCGGGCGAGTTGGTCGCGGCCTTCAGTCCCCTGGCTTGGTCCTGTGGGGTCC
CCGGCCCGGCACCTCCTCCCGCGAGCCGTGCGCCCCATCCTGGGCCTGCGCCCCCTTCC
CCCGAGCCGTGCGCCCCCATGCTAGGCCCTGTGACCCTCCCCGAACAGTGCGCCCCGAT
CCTGGGCCCTGCGCCCCCTCCCCACCCCATCCCGGGGCGCGCTGGACCCCCGCGGGCT
AAGCGCACCCGGGCGGTGACCCAGGGGCTTCGCCCCTCCTCGACCCCGGCGCTGGGACC
CCTCCCCAGCCCCCTCCGGGAGCGTCTCGGGACCCCCAGACACCCCCCGGCTCCTGTG
CCTCCCAGCCCCGCACCTCCTCCCTCTGGACCGGCTCCCAAGGCCACCTGGTCAGCAG
CCACGGAGGCTCCCGTGCAGGGACACCCCTCCCGTGCTGGGCGGCTCCGGGGCCA
CCCCCTCCTCCCTGCTGCCCCAGAGCTGCTCACCTGGGGATCTTCCCCCATCCTCTT
CTGGCTCACCGAGCTCGAACCCCCACACTCCCGTCCCAGCTGGGCTGCTCCGACACCC
CACCCCGTGGACATGAGACCGCCAGCACTCAGCGCCACCCCTAGGTGCCTGTAGCCCC
CACACTCCCATCCCAGCCGGGTGCTCCGACACCCCTGCCCTGCAGACATGAGGCCGCCC
AGCACTCAGACCCCGCCCTAGCACACCTCCTCCACGCAGCAGTCTCCTGCCTCTTCC
CTCACCAAGGGCCTCCAGCACCACTCCTCCACACAGCAGTCTCCTGCCTCTTCCCTC
ACCCAAGGGTCTCATCCACCACTCCTCCACACAGCAGTCTCCTGCCTCTTCCCTCAC
CAAGGGCCTCCAGCACCACTCCTCCACACAGCAGTCTCCTGCCTCTTCCATCACCAAG
GGGTCTCGTCCACCACCTCCTCCACGCAGCAGTCTCCTGCCTCTTCCATCACCAAGGG
TCTCATCCACCACTCCTCCACACAGCAGTCTCCTGCCTCTTCCCTCACCAAGGGCCT
CCAGCACCACTCCTCCACACAGCAGTCTCCTGCCTCTTCCATCACCAAGGGCCTCCA
GCATCACCTCCTCCACGCAGCAGTCTCCTGCCTCTTCTCTCACCAAGGGCCTCCAGCA
CCACCTCCTCCACGCAGCAGTCTCCTGCCTCTTCCATCACCAAGGGCCTCCAGCATCA
CCTCCTCCACGCAGCAGTCTCCTGCCTCTTCCCTCACCAAGGGCCTCCAGCACCACT
CCTCCACGCAGCAGTCTCCTGCCTCTTCCATCACCAAGGGTCTCATCCACCACTCCT
CCCACACAGCAGTCTCCTGCCTCTTCCCTCACCAAGGGCCTCCAGCACCACTCCTCCC
ACGCAGCAGTCTCCTGCCTCTTCCCTCACCAAGGGCCTCCAGCACCACTCCTCCACG
CAGCAGTCTCCTGCCTCTTCCATCACCAAGGGCCTCCAGCATCACCTCCTCCACGCAG
CAGTCTCCTGCCTCTTCCCTCACCAAGGGCCTCCAGCACCACTCCTCCACGCAGCAG
TCTCCTGCCTCTTCCATCACCAAGGGTCTCATCCACCACTCCTCCACACAGCAGTCT
CCTGCCTCTTCCCTCACCAAGGGCCTCCAGCACCACTCCTCCACGCAGCAGTCTCCT
GCCTCTTCCCTCACCAAGGGCCTCCAGCACCACTCCTCCACACAGCAGTCTCCTGCC
TCTTCCCTCACCAAGGGCCTCCAGCACCACTCCT
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Gene 2. >ENST00000333925 cDNA sequence

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GTCCACTCCTCCCCACCCCGAGTCCACCCTGGGAGCCGTCCACTCCTCCCCACCCCGA
GTCCACCCTGGGAGCCGTCCACTCCTCCCCACCCCAAGTCCACCCTGGGAGCCGTCCAC
TCCTCCCCACCCCGAGTCCACCCTGGGAGCCGTCCACTCCTCCCCACCCCGAGTCCACC
CTGGGAGCCGTCCACTCTTCTCCACCCCGAGTCCACCCTGGGAGCCGTCCACTCCTCCC
CACCCCGAGTCCACCCTGGGAGCCGTCCACTCCTCCCCACCCCGAGTCCACCCTGGGAG
CCGTCCACTCCTCCCCACCCCGAGTCCACCCTGGGAGCCGTCCACTCCTCCCCACCCCG
AGTCCACCCTGGGAGCCGTCCACTCCTCCCCACCCCGAGTCCACCCTGGGAGCCGTCCAC
TCCTCCCCACCCCGAGTCCACCCTGGGAGCCGTCCACTCCTCCCCACCCCGAGTCCAC
CCTGGGAGCCGTCCACTCCTCCCCACCCCGAGTCCACCCTGGGAGCTGTCCACTGTTCCC
CAGCCCGAGTCTGCCTGGGAAGCTCACCACTCCTCCACGCAGCAGTCTCCTGCCTCT
TCCCTCACCAAGGGCCTCCAGCACCACTCCTCCACACAGCAGTCTCCTGCCTCTTCC
CTCACCAAGGGTCTCATCCACCACTCCTCCACACAGCAGTCTCCTGCCTCTTCCCTC
ACCAAGGGCCTCCAGCACCACTCCTCCACACAGCAGTCTCCTGCCTCTTCCATCACCA
CAAGGGTCTCGTCCACCACCTCCTCCACGCAGCAGTCTCCTGCCTCTTCCATCACCAAG
GGGTCTCATCCACCACCTCCTCCACACAGCAGTCTCCTGCCTCTTCCCTCACCAAGGG
CCTCCAGCACCACTCCTCCACACAGCAGTCTCCTGCCTCTTCCATCACCAAGGGCCT
CCAGCATCACCTCCTCCACGCAGCAGTCTCCTGCCTCTTCTCTCACCAAGGGCCTCCA
GCACCACCTCCTCCACGCAGCAGTCTCCTGCCTCTTCCATCACCAAGGGCCTCCAGCA
TCACCTCCTCCACGCAGCAGTCTCCTGCCTCTTCCCTCACCAAGGGCCTCCAGACCA
CCTCCTCCACGCAGCAGTCTCCTGCCTCTTCCATCACCAAGGGTCTCATCCACCACT
CCTCCACACAGCAGTCTCCTGCCTCTTCCCTCACCAAGGGCCTCCAGCACCACTCCT
```

FIGURE 1 (CONT'D)

CCCACGCAGCAGTCTCCTGCCTCTTCCCTCACCCAAGGGCCTCCAGCACCACCTCCTCCC
ACGCAGCAGTCTCCTGCCTCTTCCATCACCCAAGGGCCTCCAGCATCACCTCCTCCCACG
CAGCAGTCTCCTGCCTCTTCCCTCACCCAAGGGCCTCCAGCACCACCTCCTCCCACGCAG
CAGTCTCCTGCCTCTTCCATCACCCAAGGGTCTCATCCACCACCTCCTCCCACACAGCAG
TCTCCTGCCTCTTCCCTCACCCAAGGGCCTCCAGCACCACCTCCTCCCACGCAGCAGTCT
CCTGCCTCTTCCCTCACCCAAGGGCCTCCAGCACCACCTCCTCCCACACAGCAGTCTCCT
GCCTCTTCCCTCACCCAAGGGCCTCCAGCACCACCT

Gene 3. >ENST00000299543 cDNA sequence

CTGGGTTGTGTGCGCGGTAGGCGTGCCTCTGAGCGCAGCGCAGGCCCGTACCGAC
CGCCCGCCCGCCTCTGTCCGCGATGGAGGTGCCGGCCGCGGTGCGTTCCTGCCGAGG
GCGCCCGACGGCGGCTGTGGCCGAGGTGCGCTGCCCGGGCCCGCGCGCTGCGCCTGC
TGGAGTGGAGGGTGGCGGCGGGCGCGGCCGTGCGCATCGGCTCGGTGCTGGCCGTGTTCC
AGGCCGCGCCTCCGCGCAGTCTCCTCGGGGCTCTCAGTCCCGTGTAGCCTCCGGGGGCT
GCGTGCGCCCCGCGCGGCCGGAACGCAGGCTGAGGTGCGAGCGCGCGGGCGTGGTGCGGG
AGCTGTGCGCGCAGCCGGGCCAGGTGGTGCCTCCAGGAGCGGTTCTGGTGAGGTTGGAAG
GATGCAGCCACCCGTTGTATGAAAGGCCTGTGTGCTGAATGTGGCCAAGACCTCACCC
AGTTGCAGAGTAAGAACGGGAAGCAGCAGGTGCCGCTGTCCACGGCGACCGTGTCCATGG
TGACAGCGTGCCTGAGTTGATGGTGAGCTCCGAGCAAGCTGAACAGCTGGGAAGAGAAG
ACCAGCAGCGACTGCACCGAAACCGGAAGCTGGTGCTCATGGTGACTTGGACCAGACGT
TGATTACACAACCGAGCAGCACTGTGAGCAGATGTGCAATAAAGGCATCTTTCACTTCC
AGCTGGGCCCGGGTGAGCCCATGCTGCACACGCGCTGCGTCCACACTGCAAGGACTTCC
TGGAGAAGATCGCCAAGCTGTACGAGCTGCACGTCTTACCTTCGGCAGCCGGCTGTACG
CACACACCATCGCAGGCTTTTGTAGACCCCGAGAAGAAGCTTTTCTCACCGAATATTAT
CAAGGGATGAATGTATTGACCATTTTCTAAACCGGAAACCTTAGAAATCTCTTTCCTT
GTGGAGACTCAATGGTTTGCATTATTGATGATCGAGAAGATGTCTGGAAGTTTGCCCCCA
ATCTGATAACTGTGAAGAAATATGTATACTTCCAGGGCACGGGTGATATGAATGCGCCCC
CTGGGTCCCGAGAATCTCAGACGAGAAAGAAAGTAAATCATTCTCGAGGCACTGAGGTCT
CAGAGCCATCTCCGCGCGTGAGAGACCTGAGGGGGTAACGCAGGCCCTGGAGTGGAGC
CCAGCAATGGCCTGGAGAAGCCTGCACGGGAGCTGAACGGCAGCGAGGCCGCCACCCCGC
GGGACTCACCCCGCCCCGGGAAGCCAGACGAGAGGGACATCTGGCCCCCTGCCCAGGCCC
CCACCAGCAGCCAAGAGCTGGCAGGCGCTCCTGAGCCCCAGGGATCCTGTGCGCAGGGTG
GCCGGGTGGCACCGGGACAGCGGCCTGCCCAGGGTGCCACGGGCACTGACCTGGACTTTG
ACTTATCCAGCGACAGCGAGAGCAGCAGTGAGTCCGAGGGCACGAAGTCTCCTCCTCCG
CCTCTGATGGCGAAAGCGAGGGGAAAAGAGGCCGGCAGAAGCCGAAGGCTGCCCCAGAGG
GAGCCGGGGCGCTGGCACAGGGCAGTTCCCTGGAGCCGGGGCGGCCTGCAGCACCGAGTC
TCCCCGAGAGGCCGAGCCTGGCGCGCATGCCCGGACAAGGAGCCTGAGCTGGGTGGGC
AGGAGGAGGGCGAGCGGGATGGCCTCTGCGGCCTGGGCAACGGCTGTGCCGACAGGAAGG
AGGCGGAGACCGAGTCACAGAACAGCGAGCTGTGCGGGGTCACTGCGGGTGAGTCCCTGG
ACCAGAGCATGGAGGAGGAGGAGGAGGAGGACACGGATGAGGATGACCACCTCATCTACC
TGGAGGAGATCCTGGTCCGTGTACACACTGACTACTATGCCAAGTATGACCGCTACCTCA
ACAAGGAGATCGAGGAGGCGCCGGACATCCGCAAGATCGTGCCGGAGCTCAAGAGCAAGG
TGCTGGCAGACGTGGCCATAATTTTCACTGGGCTACACCCGACAACTTCCCGATAGAGA
AGACGCGGGAGCATTACACGCCACGGCGCTGGGAGCGAAGATCCTCACTCGGCTGGTGC
TGAGCCCCGACGCCCCCTGACAGGGCCACGCACCTGATCGCCGCGCGAGCTGGCACAGAGA
AGGTGCTGCAGGCACAGGAGTGCAGCACCTGCACGTGGTCAACCCTGACTGGCTGTGGA
GCTGCCTGGAGCGCTGGGACAAGGTGGAGGAGCAGCTCTTCCCGCTCAGGGACGATCACA
CCAAGGCACAGAGGGAGAACAGCCCTGCGGCCTTTCCCGACCGGGAGGGTGTGCCCCCA
CCGCCTTGTTCACCCGATGCCGGTTCTTCCCAAGGCCAGCCTGGCCCCGAGGTTCGGA
TCTACGACTCCAACACGGGAAGCTCATCAGGACGGGCGCCCGGGGGCCCCCAGCACCT
CCAGCTCCCTACCCATCCGCCAGGAGCCCTCTTCTTTCAGGTGGACGACATCCTTGGAGA
AGGCAGCGACGACAGCGACAGCGAGAAGAGGAGGCCTGAGGAGCAGGAGGAGGAGCCCA
GCCCCGGAAGCCAGGGACCCGACGGGAGCGGACGCTCGGGGCACTGCGTCCAGCGAGAG
GAGCGCGGCAGGGGGCCGGGGGCCAGAGGCCACAAGAGGAAGCTGAATGAAGAGGACGC
CGCCAGCGAGTCCAGCAGGGAGTCCAGCAACGAGGATGAGGGCAGCAGCTCCGAGGCCGA

FIGURE 1 (CONT'D)

CGAGATGGCCAAGGCGCTGGAGGCGGAGCTCAACGACCTCATGTGAGCGCGGGCAGCGGG
CAGGGACTGAAGCCTGACCGACCTCCAGCAGCACTCGGACGTCCCCGGACCAGCCCTCAG
TCTCGGTCCACGCTGCTTTCTTCCCAAAGGACATGTATATTTGCAGAGCTCCACATACAG
AAACACATTATTTTGCAGAAATAGGTGTTTTTAAGAAGTTTACTACAGGAATGTCTACT
TTTGTAAGTGACAGGTGTTAAAGGCCCAGGTGTGCTGTGCCAAAGAGCTCAGCAGAGGCT
CACGTGGCCCCAGGCTGGTGCGCCCGCTGTCTCGGTAAGGGGCGGGTTGGTGTGTTTTCCC
CTTGTTGTAACAGAGCACATTCTTAGGGGACGGCTTTGGGGGTCCACGAGACATGGACT
AGGAGTTTAAGCAGGACAGTGTGCGTGCACGAGCTCCGAGCCAGCACAGACATGCCTGG
AACCCCGCGCGCCTGCTGCTCCCTCCTAGGGAACCCATTTCCGGGGAACGCCGTGACTGT
CGGGCAGCCTGGAGCTTCTGTCAGCCTCCTACGCAGGGTCCACGCCACGTGGCCTGGGCT
GCCATCCTGCCGTCCTCCCACTGGCATCCTGGCAAGGGGCGTTGCTTTTCTGGGCGGC
CTTTTATGTCTTGGAGACACCTGATGTAAAGTTTCTGTAAATCTATTTTCATATCTGACCC
ACCAAACAGATTTCTCTTTAATAAAAATCCTTTTTGTAAAGTTC

Gene 4. >ENST00000075430 cDNA sequence

GGAAGTCGGCGCGGGCTAGGCGACGGGTGGAAGCCGGTACCGAGAGGAACTACAGCGTCG
CCGCCTGGGTTGTGTGCGCGCGGTAGGCGCTGCGCTCTGAGCGCAGCGCAGGCCCGTAC
CGACCGCCCCGCGCCCTCTGTCCGCGATGGAGGTGCCGGCCGCGGGTCGCGTTCCTGCC
GAGGGCGCCCCGACGGCGGGTGTGGCCGAGGTGCGCTGCCCGGGGCCGCGCCGCTGCGC
CTGCTGGAGTGGAGGGTGGCGGGCGGGCGCGCCGTGCGCATCGGCTCGGTGCTGGCCGTG
TTCGAGGCCGCGCCTCCGCGCAGTCCTCCGGGGCCTCTCAGTCCCGTGTAGCCTCCGGG
GGCTGCGTGCSCCCCGCGCGGCCGGAACGCAGGCTGAGGTGCGAGCGCGGGCGTGGTG
CGGGAGCTGTGCGCGCAGCCGGGCCAGGTGGTCCGCCAGGAGCGGTTCTGGTGAGGTTG
GAAGGATGCAGCCACCCGGTTGTTCATGAAAGGCCTGTGTGCTGAATGTGGCCAAGACCTC
ACCCAGTTGCAGAGTAAGAACGGGAAGCAGCAGGTGCCGCTGTCCACGGCGACCGTGTCC
ATGGTGACAGCGTGCCTGGAGTTGATGGTGAGCTCCGAGCAAGCTGAACAGCTGGGAAGA
GAAGACCAGCAGCGACTGCACCGAAACCGGAAGCTGGTGCTCATGGTGGAATTGGACCAG
ACGTTGATTACACAACCGAGCAGCACTGTGACAGATGTCTGAATAAAGGCATCTTTCAC
TTCCAGCTGGGCCGGGGTGGAGCCCATGCTGCACACGCGCCTGCGTCCACACTGCAAGGAC
TTCCTGGAGAAGATCGCCAAGCTGTACGAGCTGCACGTCTTACCTTCGGCAGCCGGCTG
TACGCACACACCATCGCAGGCTTTTTAGACCCCGAGAAGAAGCTTTTTTCTCACCGAATA
TTATCAAGGGATGAATGTATTGACCCATTTTCTAAAACGGGAACCTTAGAAATCTCTTT
CCTTGTGGAGACTCAATGGTTTTGCATTATTGATGATCGAGAAGATGTCTGGAAGTTTGCC
CCCAATCTGATAACTGTGAAGAAATATGTATACTTCCAGGGCACGGGTGATATGAATGCG
CCCCCTGGGTCCCGAGAATCTCAGACGAGAAAGAAAGTAAATCATTTCTCGAGGCACTGAG
GTCTCAGAGCCATCTCCGCCCGTGAGAGACCTGAGGGGGTAACGCAGGCCCTGGAGTG
GAGCCAGCAATGGCCTGGAGAAGCCTGCACGGGAGCTGAACGGCAGCGAGGCCGCCACC
CCGCGGGACTCACCCCGCCCCGGGAAGCCAGACGAGAGGGACATCTGGCCCCCTGCCCAG
GCCCCACCCAGCAGCCAAGAGCTGGCAGGCGCTCCTGAGCCCCAGGGATCCTGTGCGCAG
GGTGGCCGGGTGGCACCGGGACAGCGGCCTGCCAGGGTGCCACGGGCACTGACCTGGAC
TTTGACTTATCCAGCGACAGCGAGAGCAGCAGTGAGTCCGAGGGCACGAAGTCCTCCTCC
TCCGCTCTGATGGCGAAAGCGAGGGGAAAAGAGGCCGGCAGAAGCCGAAGGCTGCCCA
GAGGGAGCCGGGGCGCTGGCACAGGGCAGTTCCCTGGAGCCGGGGCGGCCTGCAGCACCG
AGTCTCCCCGGAGAGGCCGAGCCTGGCGCGCATGCCCGGACAAGGAGCCTGAGCTGGGT
GGGCAGGAGGAGGGCGAGCGGGATGGCCTCTGCGGCCTGGGCAACGGCTGTGCCGACAGG
AAGGAGGCGGAGACCGAGTCACAGAACAGCGAGCTGTGCGGGGTCACTGCGGGTGAGTCC
CTGGACCAGAGCATGGAGGAGGAGGAGGAGGAGGACACGGATGAGGATGACACCTCATC
TACCTGGAGGAGATCCTGGTCCGTGTACACACTGACTACTATGCCAAGTATGACCGCTAC
CTCAACAAGGAGATCGAGGAGGCGCCGGACATCCGCAAGATCGTGCCGGAGCTCAAGAGC
AAGGTGCTGGCAGACGTGGCCATAATTTTTCAGTGGGCTACACCCGACAACTTCCCGATA
GAGAAGACGCGGGAGCATTACCACGCCACGGCGCTGGGAGCGAAGATCCTCACTCGGCTG
GTGCTGAGCCCCGACGCCCCGTGACAGGGCCACGCACCTGATCGCCGCGCGAGCTGGCACA
GAGAAGGTGCTGCAGGCACAGGAGTGCAGCACCTGCACGTGGTCAACCCTGACTGGCTG
TGGAGCTGCCTGGAGCGCTGGGACAAGGTGGAGGAGCAGCTCTTCCCGCTCAGGGACGAT
CACACCAAGGCACAGAGGGAGAACAGCCCTGCGGCCTTTCCCGACCGGGAGGGTGTGCC

FIGURE 1 (CONT'D)

CCCACCGCCTTGTTCCACCCGATGCCGGTTCCTTCCCAAGGCCAGCCTGGCCCCGAGGTT
CGGATCTACGACTCCAAACAGGGGAAGCTCATCAGGACGGGCGCCGGGGGCCCCCAGCA
CCCTCCAGCTCCCTACCCATCGCCAGGAGCCCTCTTCTTCAGAGCGGTTCCGCCACCC
CAGCCGCAGATGTTTGGTGAAGAGCTGCCTGACGCTCAGGACGGAGAGCAGCCTGGCCCT
TCTAGAAGAAAGCGACAGCCAGTATGTCTGAGACAATGCCGCTGTACACTCTTTGTAAG
GAGGATTTAGAGAGTATGGACAAAGAGGTGGACGACATCCTTGGAGAAGGCAGCGACGAC
AGCGACAGCGAGAAGAGGAGGCCTGAGGAGCAGGAGGAGGAGCCCCAGCCCCGGAAGCCA
GGGACCCGCAGGGAGCGGACGCTCGGGGCACCTGCGTCCAGCGAGAGGAGCGCGGCAGGG
GGCCGGGGGCCAGAGGCCACAAGAGGAAGCTGAATGAAGAGGACGCCGCCAGCGAGTCC
AGCAGGGAGTCCAGCAAAGAGGATGAGGGCAGCAGCTCCGAGGCCGACGAGATGGCCAAG
GCGCTGGAGGCGGAGCTCAACGACCTCATGTGAGCGCGGGCAGCGGGCAGGGACTGAAGC
CTGACCGACCTCCAGCAGCACTCGGACGTCCCCGGACCAGCCCTCAGTCTCGGTCCACGC
TGCTTTCTTCCCAAAGGACATGTATATTTGCAGAGCTCCACATAAGAAACACATTATTT
TGCAGAAATAGGTGTTTTTAAGAAGTTTTACTACAGGAATGTCTACTTTTGTAAGTGACA
GGTGTTAAAGGCCAGGTGTGTGTGCCAAAGAGCTCAGCAGAGGCTCACGTGGCCCAGG
CTGGTGCGCCCGCTGTCTCGGTAAGGGGCGGGTTGGTGTGTTTTCCCTTGTGTACCAGA
GCACATTCTTTAGGGGACGGCTTTGGGGGTCCCAAGAGACATGGACTAGGAGTTTAAGCA
GGAAGTGTGCGTGACGAGCTCCGAGCCCAGCACAGACATGCCTGGAACCCCGCCGCC
TGCTGTCTCCCTCCTAGGGAACCCATTTCCGGGGAAACGCGTGAAGTGTGGGCAGCCTGGA
GCTTCCTGCAGCCTCCTACGAGGGTCCACGCCACGTGGCCTGGGCTGCCATCCTGCCGT
CCTCCCCTGGCATCCTGGCAAGGGGGCGTTGCTTTTCTGGGCGGCCTTTTATGTCTTG
GAGACACCTGATGTAAAGTTTCTGTAAATCTATTTTCATATCTGACCCACCAAACAGATTT
CTCTTTAATAAAAATCCTTTTTGT

Gene 5. >ENST0000307671 cDNA sequence

AACACATGAATTTGGAGGGGACAAAAACATTTCAACCGTAGCACCATTTGTCTCCTTTGC
TGCTATTGGAGGGAGAGTCCCAATTTCTCATTAGTTTATGCAGCTTGCTGCTTAGTAATG
ACTTATCAATGACAGTTGAAACTTGTAGTTGTATTTGATGAAGGAAATATGCACATTTCT
TTATAGCACTTAGTTTTTTGCTTTGTTTTTCTACTTTATTAACATGCAGGCAAAGTGGGA
GTGTTTTATTTTTAAAGAAGCTTTGAGCATTAGACATGTTTTAAATCTATTTCTTCGTTTA
ATATCAGTTGTCTTCTAAGAAGTGTCTCATCAAAATGGAAACAATAAGGCTTAGATAT
TTAAGATAAAATGTACCAGCTGGAGGATGAGTCTGCGCATTTGGATGAAATGCCACTAAT
GATGTCTGAAGAAGGCTTTGAGAATGAGGAAAGTGATTACCACACCTTACCACGAGCCAG
GATAATGCAAAGGAAAAGAGGACTGGAGTGGTTTTGTCTGTGATGGCTGGAAGTTCCTCTG
TACCAGTTGCTGTGGTTGGCTGATAAATATTTGTGGAAGAAAGAAAGAGCTGAAAGCTCG
CACAGTATGGCTTGGATGTCTGAAAAGTGTGAAGAAAAACATCCCAGGAATTTCTATAAA
AAATCAAAAATACAATGTGTTTTACCTTTTATACCTGGGGTTTTGTATGAACAATTCAGTT
TTTCTTGAATCTCTATTTTCTAGTAATATCCTGCTCACAGTTTGTACCAGCATTGAAAAT
AGGCTATCTCTACACCTACTGGGCTCCTCTGGGATTTGTCTTGGCTGTTACTATGACACG
GGAAGCAATTGATGAATTTCCGCGTTTTCAGCGTGACAAGGAAGTGAATTCACTATA
TAGCAAGCTTACAGTAAGAGGTAAAGTGCAAGTTAAGAGTTTCAAGACATAAAGTTGGAGA
CCTCATCATAGTGGAAAAGAATCAAAGAATTCATCGGACATGGTGTCTTAGGACTTC
AGAAAAAGCAGGTTCTGTGTTTTATTGCAACTGATCAACTAGATGGTGAAACTGACTGGAA
GCTGAAGGTGGCAGTGAGCTGCACGCAACAGCTGCCGGCTCTGGGGGACCTTTTTTTCTAT
CAGTGCTTATGTTTATGCTCAGAAACCACAAATGGACATTACAGTTTTCGAAGGCACATT
TACCAGGGAAGACAGTGACCCGCCCCATTATGAAAGTCTCAGCATAGAAAATACATTGTG
GGCAAGCACCATTGTTGCATCAGGTAAGTGTGTTGTATTTATACCGGAAAAGA
GACTCGAAGTGTAAATGAACACATCCAATCCAAAAATAAGGTTGGTTTTGTTGGACCTTGA
ACTCAATCGGCTGACGAAAGCGCTATTTTTGGCTTTAGTTGCTCTTTCCATTGTTATGGT
AACCTTACAAGGATTTGTGGGTCCATGGTACCGCAATCTTTTTCGGTTCTTCTCCTCTT
TTCTTACATCATTCCCATAGTTTGCCTGTGAAGTTGGACATGGGCAAAGCGGTGTATGG
ATGGATGATGATGAAAGATGAGAACATCCCTGGCACGGTCTGTTCCGACCCAGCACTATCCC
AGAGGAACTTTGGGCGCCTGGTGTATTTATTGACAGACAAAACAGGAACCTCACCCAGAA
TGAAATGATATTTAAGCGGCTGCACCTGGGCACCGTGTCTATGGCGCCGACACGATGGA
TGAGATCCAGAGCCATGTGAGGACTCCTACTCACAGATGCAGTCTCAAGCTGGTGGAAA

FIGURE 1 (CONT'D)

CAATACTGGTTCAACTCCACTAAGAAAAGCCCAATCTTCAGCTCCCAAAGTTAGGAAAAG
 TGTCACTAGTTCGAATCCATGAAGCCGTGAAAGCCATCGTGTGTGTACAACGTGACCCC
 CGTGTATGAGTCTCGGGCCGGCGTTACTGAGGAGACTGAGTTCGAGAGGCTGACCAAGA
 CTTCACTGATGAGAATCGACCTACCAGGCTTCAGCCCGGATGAGGTGCTCTGGTGCA
 GTGGACAGAGAGTGTGGGCCTCAGCTGGTCAGCAGGGACCTCACCTCCATGCAGCTGAA
 GACCCCACTGAGGAGGTCCTCAGCTTCTGCATTCTGCAGCTGTTTCCCTTACCTCCGA
 GAGCAAGCGGATGGGCGTCATCGTCAGGGATGAATCCACGGCAGAAATCAATTCTACAT
 GAAGGGCGCTGACGTGGCCATGTCTCCTATCGTGCAGTATAATGACTGGCTGGAAGAGGA
 GTGCGGAAACATGGCTCGCGAAGGACTGCGGACCCTCGTGGTTGCAAAGAAGGCGTTGAC
 AGAGGAGCAGTACCAGGACTTTGAGAGCCGATACACTCAAGCCAAGCTGAGCATGCACGA
 CAGGTCCCTCAAGGTGGCCGCGGTAGTCGAGAGCCTGGAGAGGGAGATGGAAGTCTGTG
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 TGCCAAAAGTTACATCTCGTGTCTAGAACAAGATATTCATATTTTCAGACAGGTAAC
 CAGTCGGGGAGAGGCACATTTGGAGCTGAATGCATTTTGAAGGAAGCATGATTGTGCACT
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 GCTGGCCTGCCAGTGCCCTGCCGTGGTTTGTCTGCGCTGCTCACCCACCCAGAAGGCCCG
 CATTGTGACACTGCTGCAGCAGCACACAGGGAGACGCACCTGCGCCATCGGTGATGGAGG
 AAATGATGTGAGCATGATTGAGGCAGCAGACTGTGGGATTGGGATTGAGGGAAAGGAGGG
 TAAACAGGCCTCGCTGGCGGCCGACTTCTCCATCACGCAGTTCGGGCACATAGGCAGGCT
 GCTCATGGTGACGGGCGGAACAGCTACAAGAGGTGCGCGGCACTCGGCCAGTTCGTCTAT
 GCACAGGGGCCTTATCATCTCCACCATGCAGGCTGTGTTTTCTCAGTCTTCTACTTCGC
 ATCCGTCCCTTTGTATCAGGGCTTCTCATGGTGGGGTATGCCACCATATACACCATGTT
 CCCAGTGTCTCTTAGTGCTGGACCAGGACGTGAAGCCAGAGATGGCGATGCTCTACCC
 GGAGCTGTACAAGGACCTCACCAAGGGAAGATCCTTGTCTTCAAAACCTTCTCATCTG
 GGTTTTAATAAGTATTTACCAAGGCGGCATCCTCATGTATGGGGCCCTGGTGCTCTTCA
 GTCTGAGTTCGTCCACGTGGTGGCCATCTCCTTCAACGCACTGATCCTGACCGAGCTGCT
 GATGGTGGCGCTGACCGTCCGCACGTGGCACTGGCTGATGGTGGTGGCCGAGTTCCTCAG
 CTTAGGCTGCTACGTGTCCTCACTCGCTTTTCTCAATGAATATTTTGGTATAGGCAGAGT
 GTCTTTTGGAGCTTTCTTAGATGTTGCCTTTATCACCAACCGTGACCTTCTGTGGAAAGT
 GTCGGCGATCACCGTGGTCAGCTGCCTCCCGCTGTATGTCCTCAAGTACCTGAGGCGCAA
 GCTCTCTCCTCCAGCTACTGCAAGCTGGCCTCCTAA

Gene 6. >ENST00000299727 cDNA sequence

ATCCCGCTAGAATCCGTCCAGTCTCTGCTCGCGCACCGTGACTTCTAAGGGGCGCGGATT
 TCAGCCGAGCTGTTTTTCGCCTCTCAGTTGCAGCAGAGAAGCCCTGGCACCCGACTCTAT
 CCACCAACAGGAAGCCTCCCAAAGAGCTCTCGCCCTGTGGACGACTCGGAATCCCTGGA
 AAAGCCGGGAGGGAGTCCGAGGGCGCCAGCCCACTGGGGAGGTGGCGCTGGGCGCGCGGGA
 TCGCGGGGAGCCTTCTCTGCAGGAGCCGCACAGTGCATGCTGCGCGCTGGGCAGTGCG
 GGGAAAGCGCCGCGGGAAGGAGCGGCTCCGAGCAACAGGTGCAGCACGCAGCCCTCCGGG
 AGCCAGGGAAAACCGCCGGCGAAGATCTGGAGCGGTAAGGCGGAGAGAAGGGTCTTTCCA
 CCTGCGCGGCTGCAGCCGGCGGATCCCTCTTCCAGGCTCCGTGGTTCGCGCAGCGGGCGG
 AGGCGCCCGGGAAGGGGACCCAGTGCTCTCGAGATCACCGTCCCTTCCCGAGAAGGTCC
 AGCTCCGGGCTCCCGAACCCACCTCTCTCAGAAGGTCCCGGCGCAAAGACGGTGCCACC
 AGGCACGGCCACCGATCCCGCTCCCGCTGGCTCGCGCTCGGGGGAAGCTCAGACTCC
 TAAACTCGCACTCTCCGTGCTTTGCGCGGGGACCCCTGGCCACCCCGGCGCCTACTATC
 CCGCCCTCCCTCCCGCGCGCCCGCGCTCGCGGGACAGCCCGCGGGCCATGGAGCT
 GCGGGTCCGGAACTCAGCGAGGGCAACGCGAGCTGGCCGGAGCCCCCGCCCGGAGCC
 CGGGCCGCTGTTCCGCATCGGCGTGGAGAACTTCGTACGCTGGTGGTGTTCGGCCTGAT
 CTTTCGCGCTGGGTGTGCTGGGCAACAGCCTAGTGATCACCGTGTGGCGCGCAGCAAGCC
 GGGCAAGCCGCGGAGCACCAACCTGTTTCTCAACCTGAGCATCGCCGACCTGGC
 CTACCTGCTCTTCTGCATCCCTTCCAGGCCACCGTGTACGCGCTGCCACCTGGGTGCT
 GGGCGCCTTCTGCAAGTTTCTCACTACTTCTTCAACCGTGTCCATGCTGGTGAGCAT
 CTTCAACCTGGCCGCGATGTCCGTGGACCGCTACGTGGCCATCGTGCACTCGCGGCGCTC
 CTCCTCCCTCAGGGTGTCCCGCAACGCGCTGCTGGGCGTGGGCTGCATCTGGGCGCTGTC

FIGURE 1 (CONT'D)

CATTGCCATGGCCTCGCCCGTGGCCTACCAACAGGGCCTCTTCCACCCGCGCGCCAGCAA
 CCAGACCTTCTGCTGGGAGCAGTGGCCCCGACCCTCGCCACAAGAAGGCCTACGTGGTGTG
 CACCTTCGTCTTCGGCTACCTGCTGCCGCTCCTGCTCATCTGCTTCTGCTATGCCAAGGT
 CCTTAATCACTTGCATAAAAAAGTTGAAGAACATGTCAAAGAAGTCTGAAGCATCCAAGAA
 AAAGACTGCACAGACAGTTCTGGTGGTGGTTGTGGTGTGTTGGAATCTCCTGGCTGCCGCA
 CCACATCATCCATCTCTGGGCTGAGTTTGGAGTTTTCCCGCTGACGCCGGCTTCCTTCCT
 CTTCAGAATCACCGCCCACTGCCTGGCGTACAGCAATTCTCCGTGAATCCTATCATTTA
 TGCATTTCTCTCTGAAAATTTAGGAAGGCCTATAAAACAAGTGTTCAAGTGTACATTG
 CAAAGATTACACCTGAGTGATACTAAAGAAAGTAAAGTCAAGTAGACACCCCAACCATC
 AACCAATTGTACTCATGTGTGATAAAAGATAGAGTATCCTTATGGTTGAGTTTCCATATA
 AGTGACCAGACACAGAAACAAACAGAATGAGCTAGTAAGCGATGCTGCAACTTGTATC
 TTAACAAGAATTCAAGTCGTTTTAATTAAATCCACGTGTGTTAAAAAGTACTTTGATCC
 ATTTAGGAAATTCCTAGGTCTAGTGAGAATTATTTTTCAATTTTATTTTAGTTCTAAATT
 ATGTTTCAGAAACAAAAGACAATGCTGTACAGTTTTATTCTCTCAGACATGAAAGGGA
 ACATATATATTCATATATATGTTCAACTCTTCATAGATTGTGAACTGGCCCATCAATAT
 GGTGAGGAATATTTGCAGTCTACATTTTAAAGCCAATTTATTTAGAAAAAAAATTTGAG
 CTTTAATTCCTTAATTTTAAAGAGAAGTAATATTGTGAACTATGTATTTTAAATATGATC
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 AAGGCTTTCTGAAGTCTGTTTGACAGGTGGCATTGCTTCCAATTGTAGCTAGCGCACA
 GAGCTTTGGAAGCCTGTATTATGAGATACAGTCGGTTTACCTCAGGAGTCAATTCAGTG
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 AAATCATGGGACTGAATATACCTGGGGTATCCTATCTTGTACAAATGCATGCTTTTTTCAT
 TAAATTTGTAATGATGTTTAAATGAACATTTCCACCAAACATTATTTCTCTAAAAATGTT
 AATTTGGGGTTAAAACCATCACCATTTGAATTTCAAATGTAGTTTTTCATGACAATTTTAT
 ATTGATGTGTGTTTACAATGAGAAAATGGCATGAAAATATTAAATTGTCTGTATCG

Gene 7. >ENST00000317008 cDNA sequence

ATGCAACGCGGGCCGCTGTGCGCCAGTCCCAGTGACGGTCTTGGCGCGCTCGGAACTACG
 TATCCCGGCGTGCACCGCGGACAGAGCATGGCGGGACTACGAGTCCAGCGTTCAACGCA
 GGCCTGCGTGCCATTACCCCATCACGCGCTGAGACCCAGCATCCCGAGACTACGAGTTCC
 GGCATGCACCGCGAGCCGCTCTCCTCCAATCCCATCGCGCACTGGGAAGGCGCCAGTCC
 CCAGGAGCACAATCTGTCTCTGGCCATGCTTGTCCACCGAACTGCAGCTTACACTCTGCAG
 GTCTCTGGAGCCCAAGAAAGACCCCGGGAGGGAGCTCCCGGCCACGCCAGGTCTGGGGC
 CCGGCGAGGCAGCCATCACCACTTCACAGCATCCGACAGACAATGCCGGCAAAACCCAGC
 CTGGTAAAGAGGGAGAGAAGGAACAGGCTTTGGCAAGAGAGGCGCCGTGGTTTTCCCAG
 AGAACACAGTGGAAGACTTCCGAAGGGCCAGGTTCTCTCAGGGCGGAGGGGGCGGCGC
 TGA

Gene 8. >ENST00000217537 cDNA sequence

CGGGGCGTGCGCGTCTCTCTCCCCAGGCCCGCGCTCCCTGCCAAGAATCTGAGAGAGG
 CCGAGTGGAGTTCGGTCTCTCTGAACACTTTTAGCTGAGAGTACCAGCATCCAATGG
 GAGCGTTGTTCATTGCATTTCCACATTCCCAGGAAAGCCAGGTGCTGGCTGCCAGCTGCT
 GCGCCCCCATGTAGAAGGTGCACCTCCTGGGAGCAGGCACGTCTTTTGGCTCTTCTGAC
 CATGGAGAGATAGGACGGTCCCTGCAGCCCCGCGACAGAAAGCTGTGCCGCCACCAACCG
 GCCGCGCCCGTCTTTCGGATGGATCGCAACAGAGAGGCCGAGATGGAGCTGAGGCGAGGC
 CCCAGCCCCACAGGGCCGGCCGGGGCCACGAGGTGGATGGGGACAAGGCTACCTGCCAC
 ACCTGCTGCATCTGCGGCAAGAGCTTCCCCTTCCAGAGCTCGCTTTCGCAGCACATGCGC
 AAGCACACGGGCGAGAAGCCCTACAAGTGTCCCTACTGCGACCAACGGGCTTCCAGAAG
 GGCAACCTGAAGATTCATCCGGAGCCACCGCACGGGACTCTGATTAGGGACACGAG
 CCGGAGGCGGGCGAGGCGCCGCTGGGTGAGATGCGCGCCTCCGAGGGCCTGGACGCCTGC
 GCCAGCCCCACCAAGAGCGCCTCGGCCTGCAACCGGCTGCTGAACGGGGCCTCGCAGGCC

FIGURE 1 (CONT'D)

GACGGCGCCAGGGTCTTGAA CGGGG CCTCGCAGGCCGACAGCGGCAGAGTCTGCTGCGG
AGCAGCAAGAAGGGGGCAGAGGGGTCCGCATGCGCCCCGGGGGAGGCCAAGGCAGCGGTC
CAGTGCTCCTTCTGCAAGAGCCAGTTCGAGCGTAAGAAGGACCTGGAGCTGCACGTGCAC
CAGGCGCACAAGCCGTTCAAGTGCAGGCTGTGCAGCTACGCGACGCTGCGGGAGGAGTCG
CTGCTGAGCCACATCGAGAGGGACCACATCACCGCGCAGGGGCCCCGGCAGCGGCGAGGCC
TGCGTGGAGAACGGCAAGCCGAGCTGAGCCCCGGGGAGTTCCCGTGCGAGGTGTGTGGC
CAGGCCCTTCAGCCAGACCTGGTTCTGAAGGCGCACATGAAGAAGCACCGGGGCTCCTTC
GACCACGGCTGCCACATCTGCGGCCGTAGGTTCAAGGAGCCCTGGTTCTCAAGAACCAC
ATGAAGGCGCACGGCCCCAAGACGGGCAGCAAGAACAGGCCCAAGAGTGAGCTGGACCCC
ATCGCCACCATCAACAACGTGGTCCAGGAGGAGGTGATCGTCGCCGGCCTGAGCCTCTAC
GAGGTCTGCGCCAAGTGCGGGAACCTGTTTACAAACCTGGACAGCTTGAACGCCCAAT
GCCATCCACCGCAGAGTCGAGGCCAGCCGACGCGCGCCCCGGCCGAGGAGGGGGCGGAG
GGGCCCTCGGACACCAAGCAGTTCTTCTCCAGTGCCTGAACCTGAGGCCGTGCGCGGCC
GGCGACTCGTGCCCTGGCACGCAGGCCGGACGGCGGGTGGCTGAGCTGGACCCGGTCAAC
AGCTACCAGGCCTGGCAGCTGGCCACGCGGGGTAAAGGTGGCCGAGCCGGCCGAGTACCTC
AAGTACGGGGCCTGGGACGAGGCGCTGGCCGGGGACGTGGCCTTCGACAAGGACAGGCGC
GAGTACGTCTGGTGAGCCAGGAGAAGCGCAAGCGTGAGCAGGATGCACCAGCCGCGCAG
GGGCCCCCGCGGAAGCGCGCGAGCGGGCCTGGGGACCCCGCGCCCGCCGGCCACCTCGAT
CCCCGCTCGGCCGCGCGCCCCAACCGCAGGGCCGCGACCAACCCGGCCAGGGCAAGTCC
TCCGAGTGCTTCGAGTGCAGCAAGATCTTCCGCACCTATCATCAGATGGTGCTGCACTCA
CGCGTGATCGCCGCGCGCGCCGCGAGAGGGACAGTGAACGGGACAGGGCGGCGCGGGCC
CGCTGCGGATCACTCAGTGAGGGTGA CTGCGCCTCCAGCCAGCAGCCCTGGCTCCGCC
TGTGCCGTGCTGACTCCCCGGGCTCTGGCCTGGCCGACGAGGCTGCCGAAGACAGTGGT
GAGGAGGGCGCCCTGAACCTGCACCAGGGGGACAGCCGCGCCGCTGCTGCTTTTCCGAA
GAGGTGACTTCGACCGAGCTCTCCAGTGAGACCAGAGTCAACAAGATGGGAGATAACGCC
TCGGAAAGAGACACCGGCGAGTCCAAGGCAGGGATCGCAGCTTCTGTGTCCATACTTGAA
AACAGTAGCAGAGAGACTTCTAGAAGGCAAGAGCAGCACAGATTTTCTATGGACTTAAAG
ATGCCAGCATTTTCACCCAAGCAGGAGGTGCCCGTCCCTGGTGATGGTGTGGAGTTCCCT
TCCAGTACGGGAGCGGAGGGCCAGACGGGTCAACCTGCAGAAAAGCTGTCCGATTTGCAC
AACAAGGAACACTCTGGGGGAGGGAAGCGGGGCGCTGGCCCCAGACCTCATGCCGCTAGAT
TTAAGTGCGAGGTGCAGCGGGGATGACCCAGCAATAAGGAGACGGCCTCCTCCCTGCAG
GCGGCTTTAGTCGTTACCCGTGTCTTACTGCAGCCACAAGACCTACTACCCCGAGGTC
CTGTGGATGCACAAACGCATCTGGCACCGCGTCAGCTGCAACTCCGTGGCTCCCCCGTGG
ATTACGCCCAATGGTTACAAAAGCATCAGAAGCAATTTGGTTTTCTTTCCCGGAGCGGA
CGCACGGGGCCCCCGCCTGCCCTCGGTGGCAAGAATGCCAGCCTTTGCTCCTTGCTCGG
TTCACCCGCACTCAGGTGCCAGGGGGGATGCCGGGGTCCAAAAGTGGCTCTTCTCCCTG
GGAGTGGTCAAAAAGCCGCTAGCATGCCTAAGAATAAGGAGAGCCATTCCGGAGGTCCC
TGCGCTCTGTGGGCGCCCCGGCCCTGACGGGTATCGACAGACCAAACTTGTACGGCCAG
GAGCCACATGGCGCGGCCACACAGGGGCCCTGGCCAAGCCCAGGCAGGAGGCTAGCTCC
AAACCGGTGCCTGCCCGGGTGGCGGGGGCTTCAGCAGGAGCGCCA CCCCTACGCCACC
GTCATCGCCCCGGGCTGGCGCGCAGCCCTCGGCCAATAGCAAGCCTGTGGAGAAGTTTGGG
GTCCCCCAGCGGGGGCTGGCTTTGCCCCCAAAATAAGCACAGTGCCCCGGACTCCCTG
AAAGCCAAATTAGTGCTCAGCCTCAGGGTCCACCTCCTGCAAAGGGCGAAGGGGGCGCT
CCTCCTCTACCTCCCCGCGAGCCCCCTCGAAGGCAGCCCAGGAGCTGAGGACTCTGGCC
ACCTGTGCTGCGGGGTCCAGGGGCGACGCGGCCTTGCAAGCCCAGCCCGGCGTGGCTGGG
CCCCCGCTCCTACACTCCATCAAAAGAGCCGGTGGCCGAGGGGCATGAGAAGCGCCTG
GACATCCTCAACATCTTTAAGACGTACATTCCAAAGGACTTTGCGACCTCTACCCAGGGA
TGGGGTGTGAGCGGCCCTGGGTTGGAGCACAGAGGGACACTCCGGAAGCAGGCCCGGCCA
GGAGAGTTCTGTGATCGAGTGCGGAAAGAGCTTCCACCAGCCCGGCCACCTCAGGGCC
CACATGCGGGCACACTCAGTGGTGTGTTGAGTCCGATGGGCCTCGGGGTTCTGAAGTTCAT
ACCACCTCCGAGACGCCCCCAACAAGGGAGAGACCATTTAAACACAGGTACCGTCCAG
ACAGTGCTCTGAGAAAGGGAACCTAAAGGCGTGTTCGACGACCCCGAGTCCCCGTA
ACGGCCATTAGCAGTACCTTACGATGTCCAGCAGCCTCCACCTGTGACCTGGCCGCT
CCATGGAAGAACAGCCGGGGAACCTCTGAGCAGACACTCACATCCCGAGCCGCTGCGCT

FIGURE 1 (CONT'D)

GGAGTGGAACCTGAAGGCAGATGCCTCTCCTTGTTAAACGTTTCAGAAATAAATGAAGATG
CTATATTCTAGAAATACATGTAGATACTATATACGCATTTACGTGCTCATCGTCCATAGT
CCCATATTTTCTTATAATAAACAGTAGTACTGGCAGGCACAGTAGGGGCACAAGGCATCT
GTCTTATTCAAGACAAGTTTGTAGACACTGGAAAAAAGATACTTGTTGTGTGTGTTGGAC
AGAGTGCGCAGGCTGAGCACTGTCA CAGGGGCCTCCCATGTTAAGAGGGACTGTGGGGAT
GATGTCAGAACAAAGACGTGGTGGATTTGAGGTTGATCGAGTATTAATACTACTGCCTCTC
CTTGCTCTTAGTGGGTATTTAAAATAGTAAATAAGAGAGAGGAAGGAGGTGACGTTTCAGGT
GCTGTGGGAAGCAGGCTTGGCGGAGGGGTATGATGATGAGACCCTCATTGTTCACTGGCT
CCATCGCACTCCTCCCTGGGGCCGTGTGCCTGTTCCATTCTTCCACCATTTCGAACTGAG
CGAATCTGGCAAAGGAGACACGTCTGTGGGAATGCGTAGATTCCGCCTCGGAAGAGAGCT
AGCGCAACACTAAGAAAAGCAGGCTTCTTGTTTATTCTCAGGACCTTTTTGTAAACAGGGC
TACATTCTGCAAACCTGCTTACAAAGGAAGACTATACGTCTTAACAAATTATTTAGCCACT
GAGTCTTCCCGATTTCGGACCTGTTTTAGTAATGGCAGAAGAATCCCTGAGCAGGTTTCAGG
TGCCCTAGATGACTAGGGTGCTGAGCTCTGGCGCCTTCTGTCCCCACTCTTTGCCTCCCC
GCCCCCTTCCCTGAGCCACCCAGCAAGTGGGTGTCTTTTCTCCCTGGGCCTGGTGACCTC
CACAGGATGAGTGACTTTGTTCATAAAGGGTGGGGATCACCAGCCCCCTTGGGTGGGGGAC
GGCTTCATATACCTCTTCTCAGTAATGCAAATGCGAGTTTTTGTGGTGGGGGTAAAGGC
CCATAACAAAGGATCTTAAACCATGCAGTGTACGCAATTGAAATGGTATTCCACAGATAT
AAATATTTTCTTTTCCATTGCGGTGACACTATGTGTGATGGTAATATTTCTGAGAGTTT
CAGATTTTTGCACATATGATTTTATGCATTATCAAAGTTACTGCTGCCTTGAATGAAAA
TGTTCTGTGAAATTTTTTGCAAAAGCTTTACTAGGTTTTTTTTTAATTGTGAAATTTTTGT
AAAGGCAGGAAATGGATTAAACGAGCATGCTAAATATATTTTTTCAAAAAGCAATAATT
TTACATGTACAGAAATTATCCTAACCTTTAATACTGGCGAGAGCAACAGTTTACTTAATA
CGGTAATGGACTAGTGCAGTTTTTGTAGACAGTGGGCTTCTGATACAAAGTCTTGTTTAA
ACACAGACA CACACACACACAAACA CACACACACACCCTAAAGTGTGGGTTTTCTGTTCT
AATGATTTGTTGAATATTATTATATTATTATTATTATTATTATTATTATTATTATTATTATT
TTAGTAATGTTTGGTTCTGGATTCTACTTGTTACTGAGTTTAAATTACTTGACGGTTTCAG
GTTACTTTGCAACACTTTCAAACGATGCAATGTAAGTGGCTAGCTTATATATATATATAT
ATATATATATATATATATATTTTTTTTTTTTTTACTTATTTTTTTCTGATATTCTTACACC
AGATATGTACGAAAATGATCTGTCCTGTTGGTGTAATTAGGAATGTCCATGCAGATACAG
TTAAACAACCTGTAATTGACTGTTCTGTAAAGTTATTTTGGGCAAAGTTGCGGAGACACAT
TCCTCTGTCCACCTAAGAAATCAGAAGACTCTTCTGTTGATTTATGTTTAAATCATTTTCAG
TAGTTTTCCCCACAGTGATCATTTCTGCATTTTCTGGCTTTTGTTCCTTGGCTGAAAGTG
AATGGTGAAGTGTAGGAATGTGAGGACTAGTGACCCAGTCTGTTTCTCTGTGTTTTAG
TTATTAAAAAGAAATTCTGTACCCAAAGTG

Gene 9. >ENST00000269601 cDNA sequence

GCGGAGTTTGCGTGTGCGGGCGGGACCGGATTTTCGTCCGTGGGCCCGGGGGCGGCGGGG
CCGGGGAGTGAGGGGCCGGCTGAGCCACCTCGCTGGGCCCTCCCTGGCGCCCCGCCTTG
GGCGGCGGCGAGCGCGCGGGCCGCCATGTGCTACATGCTCCCGCACCTGCACAACGGCTG
GCAGGTGGACACAGGCCATCCTCTCGGAGGAGGACCGCGTGGTTCGTATCCGCTTCGGCCA
CGACTGGGATCCTACGTGCATGAAGATGGACGAGGTCTGTACAGCATCGCCGAGAAGGT
TAAAAATTTTGCAGTTATTTATCTTGTGGATATTACAGAAGTGCCTGACTTCAACAAAAT
GTATGAGTTATACGATCCATGTACTGTGATGTTTTTCTTCAGGAACAAGCACATCATGAT
TGACTTGGGGACTGGCAACAACAAGATTAACTGGGCCATGGAGGACAAGCAGGAGAT
GGTGGACATCATCGAGACGGTGTACCGCGGGGCCCCGAAAGGCCGCGGCCTGGTGGTGTG
CCCCAAGGACTACTCCACCAAGTACCGCTACTGAGGCGCCCTCAGTCTGCGCGGATAAAT
GTCGTGGAGCCCTTTTTGTATGGAAACGTTTTTAAGCTATTTAAAGCCTTTGGAAAATACA
GGAAGCTCCAGGGCTGGAGCACCTCTGAGATGGAATTGATAACATGGTCTTAACTCACCG
AAATAACAAGCACGTGGTGAGAGGAGCAGGCCTACTTGTTTGTCTCAGGAACTTAAT
GAATAGATTACTGATTTTCTAGTCAAAGTTAATTCTTACCCTTGGAGTAAAACGAAGGT
GTTTATCCTGTGAGCCTGTGCGTTTTGCATACTGGGTTGGTTTGCTGGGGCTGCGGTGAC
AGCATATGCCGCGAGCTGGGCTTTAACAGAGATGTGTGCTCTCACAGCTTTGCAGGCGGG
GGTCTGAGATCAGGGTGTGCGGGTGGGGGGTCACTGCTGAGGCCGTGAGGGGAATCTGC
TCAGGCCTGTCCCTGGCTTCTGGGGGCTGCTGGTGGTATTTTCAGTTCCTTGGTGTGTGG

FIGURE 1 (CONT'D)

ATACTTCGCCCCATCTCTGCCTTCACCTGTGTCTCCCTGTGTGGGTGCTGGTGTCCAAA
ATTTCCCTTTTCGTAGTGACACCAGCTGTGTTGGATTGGGGCCACCCTGCTCCAGCAT
GGCCTAATCTTAACATAATTACATTTGCAAGGATCTTATGTCCACAAAAGTCACAGTCTGA
GGTGCTGGGGGTTAGGACTTCAATATATAAATTTTGCAGTTACACAATTCAATCCATGAC
AGAATCCAAAGGTTTACTCTGGTTATAAAAAACAGTACAATAAAATATTGTTTATAGCCTT
CCCTGTAAGG

Gene 10. >ENST00000306735 cDNA sequence

ACACGCCGCTGCCAGGCGTGAGTCTTCCTCCCGCTCTGCGCCGTCGCCCCGCCACACG
CCGCCACCCTCGCGTCAGTTGTCTCGCTCCGCGCCTGCGCCCGTTGTCTCCCTGCTCGCTCC
GGGTCCCGGCGCGCGCCATGTGGGCTGCGGCGGGCGGGCTGTGGCGCTCCGCGCGGGT
CTCCGGGCCCTGTTCCGTAGCCGCGATGCTGCGCTATTTCCAGGCTGCGAGCGGGGACTT
CACTGCTCTGCTGTCTCTCTGCAAGAACTGGCTCAAGAAATTTGCCTCGAAAACCAAAAAA
AAGGTTTGGTATGAAAGTCCTTCCTTGGGTTCTCACTCGACTTACAAACCATCCAAGTTG
GAATTCCTCATGAGGAGCACCTCAAAGAAAACAGGAAGGAAGACCATGCGCGCCTGAGG
GCCCTGAACGGCCTCCTCTATAAGGCACTGACAGACCTGCTGTGTACCCCTGAAGTGAGT
CAGGAGCTGTATGACCTTAACGTGGAGCTCTCCAAGGTTTCCCTGACTCCAGACTTCTCA
GCCTGCCGAGCGTACTGGAAGACAACGCTCTCTGCTGAGCAGAACGCACACATGGAGGCT
GTCCTGCAGAGAAGTGCCGCGCACATGAGGCACCTTTTGATGTCCAGCAGACCCTGAGG
AATGTGCCACCGATAGTGTGTTTCAAGACAAGGGAAATGCAGCTCTAGCTGAGCTTGAT
CAGTTACTGGCAGTCGCAGACTTTGGACCCCGGGATGAAAGAGACAACCTTTGTACAAAAT
GATTTCCAGGGACCTGATGCCCCACAACCTGCGGCACCAAGAGCCGACCACAAGCTCC
AGTCTGTGTGGGATCGATCATGAGGCGCTCAACAAGCAGATTATGGAGTACAAAAGGAGG
AAAGATAAAGGGCTCGGGGGCCTGGTGTGGCAGGGGAGGTGGCTGAGCTGACAACGCAG
ATGAAAAAGGGAAGGAAGAGGGCCAAGCCCCGCTGGAGCAGGACAGCTCCCTCAAGAGT
TACCTGTGAGGCGAGGAGGTTGAAGATGACCTGGACCTGGTTGGTCCCCGGAGTACGAA
TGCTATGCCCCGGACACAGAGGAGTTGGAGGCAGAGAGAGGAGGTGGCAGAACAGAGGAT
GGCCACAGCTGCGGAGCAAGCAGGGAGTAGATGGAGAGGCTCTGCCCATCCACATTTGC
AGGGAAAAGCATTGGCAGCAACGCAGCATGTGGCTTCATTGAGGCAGTTGATGGAGTTA
AACCATCTGCTCTTCTGCTACTTCAACATTTTCTAGCTTTTCCGTGTATCTAAACACAAT
TTGCTACACAAGTCACTGTTTTTTTTTCCATGCACTGTGTGTAATTTAAAAATTAAATGG
CCATCTTATCACAGATTCTCAC

Gene 11. >ENST00000262197 cDNA sequence

CCTGCTCGCTCCGGGTCCCGGCGCCGCGCCATGTGGGCTGCGGCGGGCGGGCTGTGGCGC
TCCCGCGCGGGTCTCCGGGCCCTGTTCCGTAGCCGCGATGCTGCGCTATTTCCAGGCTGC
GAGCGGGGACTTCACTGCTCTGCTGTCTCTCTGCAAGAACTGGCTCAAGAAATTTGCCTCG
AAAACCAAAAAAAGGTTTGGTATGAAAGTCCTTCCTTGGGTTCTCACTCGACTTACAAA
CCATCCAAGTTGGAATTCCTCATGAGGAGCACCTCAAAGAAAACAGGAAGGAAGACCAT
GCGCGCCTGAGGGCCCTGAACGGCCTCCTCTATAAGGCACTGACAGACCTGCTGTGTACC
CCTGAAGTGAGTCAGGAGCTGTATGACCTTAACGTGGAGCTCTCCAAGGTTTCCCTGACT
CCAGACTTCTCAGCCTGCCGAGCGTACTGGAAGACAACGCTCTCTGCTGAGCAGAACGCA
CACATGGAGGCTGTCTCTGCAGAGAAGTGCCGCGCACATGAGCTTGATCAGTTACTGGCAG
TCGCAGACTTTGGACCCCGGGATGAAAGAGACAACCTTTGTACAAAATGATTTCCAGGGACC
CTGATGCCCCACAACCTGCGGCACCAAGAGCCGACCACAAGCTCCAGTCTGTGTGGGA
TCGATCATGAGGCGCTCAACAAGCAGATTATGGAGTACAAAAGGAGGAAAGATAAAGGGC
TCGGGGGCTGGTGTGGCAGGGGAGGTGGCTGAGCTGACAACGCAGATGAAAAAGGGAA
GGAAGAGGGCCAAGCCCCGCCTGGAGCAGGACAGCTCCCTCAAGAGTTACCTGTGAGGCG
AGGAGGTTGAAGATGACCTGGACCTGGTTGGTGGCCCGGAGTACGAATGCTATGCCCCGG
ACACAGAGGAGTTGGAGGCAGAGAGAGGAGGTGGCAGAACAGAGGATGGCCACAGCTGCG
GAGCAAGCAGGGAGTAGATGGAGAGGCTCTGCCCATCCACATTTGCAGGGAAAAGCATT
GGCAGCAACGCAGCATGTGGCTTCATTGAGGCAGTTGATGGAGTTAAACCATCTGCTCT
TCTGCTACTTCAACATTTTCTAGCTTTTCCGTGTATCTAAACACAATTTGCTACACAAGT
CACTGTTTTTTTTTCCATGCACTGTGTGTAATTTAAAAATTAAATGGCCATCTTATCACA
GATTCTC

Gene 12. >ENST00000262198 cDNA sequence

FIGURE 1 (CONT'D)

GGGGACCAGTCGCGCTGGGGGTGGGCGCGCGCTGAGGCGGGGGTCCGCCGCGCGGGGCG
GAGGCGCGGGCGGGCGCAGGCGGCCCCACGGGACGCGGCTGCGCTCGGCGGAAGACGCGG
CAGCCCTGCGAGAGGCAGCAGCGGAGACGCGGTGCTCCTCGGGCGCCAAGCGGAAAATTT
CAAAAATGTTTCAAATTCCTGTGGAATCTTGACAACATCAGAAAGGTGCGAAAAAGG
TGAAAGGTATTCTTGTGGATATTGGGCTTGACAGCTGCAAGGAGTTACTGAAGGACCTTA
AAGGCTTTGATCCAGGAGAGAAATACTTTTCATAACACATCATGGGGTGATGTTTCTCTCT
GGGAACCTTCTGGAAGAAAGTGAGATATCGAACAAGCCATACTGTTGTGGCCTCTGTA
AATACTCTACAAAGGTGCTTACTTCATTCAAGAATCATTTACATCGTTACCATGAAGATG
AAATTGACCAAGAGCTGGTGATCCCTTGCCCAAAGTGTGTATTTGCATCTCAGCCCAAAG
TTGTGGGAAGGCACTTCAGAATGTTCCATGCACCTGTCCGGAAGTCCAGAAGTACACAG
TGAATATTTTAGGTGAAACTAAATCATCTAGGAGCGATGTGATAAGTTTACATGTCTAA
AATGTAACTTTTCAAACACTTTGTACTACAGCATGAAGAAGCATGTGCTGGTAGCCATT
TTCATACTTAATTAACCTCTACTTTGGCCTAAGAACTGAGGAAATGGGTGAGCAACCGA
AAACTAACGATACTGTTTCTATAGAGAAGATCCCACCACCTGACAAATATTACTGTAAAA
AGTGCAACGCCAATGCCAGCAGCCAGGATGCGTTAATGTATCACATTTTGACATCAGACA
TACACAGAGATTTGGAGAATAAGCTTAGATCTGTGATTTCAGAACATATTAAGAGGACTG
GACTCTTGAAGCAAACGCACATTGCTCCAAAACAGCAGCACATTTGGCTGCACCAGCAA
ATGGCAGTGCTCCAAGCGCTCCAGCGCAGCCTCCTTGCTTCCATCTTGCTTTGCCACAGA
ACAGTCCAAGCCAGCCCGCAGGACAGCCAGTGACTGTGGCCAGGGTGCCCTGGAAGCC
TCACTCATTCCCCCCTGCTGCTGGCCAATCCACATGACTCTGGTCTCCAGCCCTCTGC
CTGTGGGCCAGAACAGCCTCACCTGCAGCCCCCAGCACCTCAGCCCGTCTTTCTTTCTC
ACGGGGTTCCACTTCATCAGTCTGTGAATCCTCCTGTGTTGCCCTTGAGTCAGCCAGTCG
GACCTGTCAATAAGTCTGTTGGAAGTGTCTCTCCCATAAATCAGACTGTTTCGCCCTG
GGGTTTTACCCCTCACCCAGCCTGTGGGACCCATAAACAGACCTGTTGGGCCTGGTGTTT
TTCCTGTGAGCCCTCTGTCAACCCTGGGGTCTGCAAGCTGTCTCGCCAGGGGTGCTTT
CTGTGAGTCGGGCGGTCCCGTCTGGAGTCCTTCCTGCAGGCCAGATGACTCCTGCAGGCC
AGATGACTCCTGCAGGGGTTATCCCTGGGCAAACAGCAACTTCTGGGGTTCTTCCTACTG
GCCAGATGGTCCAGTCAGGAGTTCTCCCTGTGGGCCAGACAGCTCCGTACGGGTTCTTC
CCCCAGGCCAGACAGCCCCATTGAGGGTTATCTCTGCAGGCCAGGTGGTCCCGTCTGGGC
TTCTTTCTCCCAACCAGACAGTCTCCTCCTCAGCTGTTGTGCCTGTAAACCAGGGGTGTGA
ATTCTGGTGTTCTGCAGCTTAGTCAGCCTGTTGTGTCGGGAGTTCTTCCTGTGGGCCAGC
CAGTGAGGCCTGGGGTCTTGCAACTCAACCAGACTGTGGGCACCAACATTCTGCCTGTGA
ATCAGCCAGTGAGACCTGGTGCTTCGCAGAACACCACCTTCCTGACATCAGGCTCTATTTC
TCAGACAGCTCATCCCTACAGGGAAACAAGTGAATGGGATTCCAACCTACACGCTGGCCC
CCGTGTCTGTCACTCTGCCGGTTCCCCCTGGAGGCCTTGCGACTGTGCTCCGCCCCAGA
TGCCCATCCAGCTCCTGCCGTGAGGTGCAGCTGCACCAATGGCCGGTTCCATGCCCGGCA
TGCCCTCTCCTCCAGTGCTGGTGAATGCTGCTCAGAGCGTGTTTGTTAGGCCTCCTCCT
CTGCAGCAGACACAAACCAGGTGCTCAAAACAGGCCAAGCAGTGGAAGACCTGCCCTGTCT
GCAACGAGCTCTTTCCGTCCAACGTCTACCAGGTCCACATGGAGGTAGCGCATAAGCACA
GCGAGTCCAAGTCTGGTGAGAACTTGAGCCTGAAAACTGGCAGCGTGTGCACCATTTC
TAAAGTGGATGAGAGAGAAAACGGTGCGATGTCTGTCTTGTAAGTGCTTGGTCTCTGAGG
AAGAGCTTATACACCACTTGCTGATGCATGGCTTGGGGTGCTTGTCTGTCCATGCACCT
TCCATGATATCAAAGGTCTTTAGAGCACAGCAGGAATAGGCACCTGGGGAAGAAGAAGT
TGCCTATGGATTATAGCAACAGAGGTTTTCAATTAGATGTGATGCCAATGGCAACCTGC
TCTTTCCCCACCTTGATTTTCATCACCATATTGCCAAAGGAGAAGCTTGGGGAGCGGGAAG
TCTACTTGGCAATCCTGGCTGGGATACACTCCAAGTCACTGGTGCTGTGTATGTGAAGG
TGAGGCCTCAGGCTGAGGGCACCCCCGGGAGCACCGCAAGCGAGTGTCACCTGCCCTT
TTTGCTTTGGCCCCCTTTGTGACAACTGAGGCCTATGAGCTGCATTTGAAGGAGAGGCACC
ACATCATGCCCACAGTCCACACGGTCTGAAAGTCTCCCGCTTCAAGTGCATCCACTGCT
GTGGGGTCTACACGGGAAATATGACCCTGGCTGCCATCGCCGTCATTTGGTGCGCTGCA
GAAGTGCTCCCAAGGACAGCAGCTCAGACCTGCAGGCCAGCCGGGTTTTATTACAAACA
GTGAAGTGCTTTTAGTCAGTGGTGAAGTGATGCATGATTCCAGTTTTTCTGTTAAGAGAA
AGCTGCCTGACGGCCACTTAGGGGCCGAAGACCAGCGGCATGGGGAGGAGCAGCCTCCCA
TCCTAAATGCCGATGCAGCCCCGGGTCCAGAAAAGGTGACGAGTGTTGTGCCTTTTAAAA

FIGURE 1 (CONT'D)

GACAAAGGAATGAAAGCAGAACAGAGGGACCTATTGTCAAGGACGAGGCTCTTCAGATTT
TAGCATTAGATCCTAAAAAATATGAAGGCCGTTCTTATGAAGAAAAGAAGCAATTTCTTA
AAGATTATTTCCATAAGAAACCATATCCTAGTAAAAAGGAAATAGAACTGTTGTCTCAC
TCTTTTGGGTGTGGAAAATTGATGTGGCTTCATTTTTTGGAAAAAGAAGGTATATTTGCA
TGAAAGCAATAAAAAATCACAGCCTTCTGTACTTTTAGGCTTTGATATGTCTGAACTTA
AAAATGTGAAACATAGATTGAACTTTGAATATGAACCATAAACTTGCAAAAAAAAAAAAA
AAGTAACTCTAAAGTAGTAGGTAGATTTTTTTTTCAGTTGAAATTTACAGTGTTGTCTCA
CTGTGTTGGTGAATCAACCTCAGTGGTCACTGTGCTGCTCTGCAGAGTTACTTCAGGTGC
TGGAGAGACCCCTGTTACCAGGAAGCCAGTAGTTATTTACATCTATTGTTTCTGCAGT
TTGATTTGTAAACAGAACAGTTGTTTTTCAGGTTTTTTTCTCTGTCTATGTAATGAAATCTT
TTGATATTTTCATGCACGCCTTGTTTTCCCACTAGTGTCTAGTATCGTATGATAAGAACTG
AAATCTATAAATAATTTGCTTTTTTCATTAAGGACATTTTCAGCCTTTTTTCAGAATACTTGA
TTTAACTGCGAGTGGAAGCATCGATCTCCTTCAGCTTTCCCTGTAGCAGCAGATGGTACA
GTGAGTGTTTCAGAGACGTGGGTACAAACCTGTGATGTATGTATAAGGCTCCCTGAGGAT
GCACTGCATTAACTTACGCTGACTTCTTTGTAAGATCTTTGCTTATAGATTATAATTTAG
ATCTGTATTTTTTTTAGGTTTTATCCTAATAGCTGTTTTTTTTTTTAAACCATAACTCATAGA
AAATCAAATGTTTTTATTTGTTAAAGTAGACTGAATTTGACATCTGGTATGCTGGTATG
TAGCTCATACATCAAGAGTTATTTTACAAATAAATTTATTCTGTAGATGC

Gene 13. >ENST00000316249 cDNA sequence

ATGGAGCCATGGCCCTGCTCCCCGGGCGGCGGCGGGACCCGCGCCCGGCACGTATC
ATCAACGTGGGCGGCTGCCGCGTGCCTGGCATGGGCGCGCTGGCGCGATGCCCCCTC
GCGCGCCTGGAGCGCCTGCGCGCTGCCGCGGCCACGACGACCTGCTGCGCGTGTGTGAC
GACTACGACGTGAGCCGCGACGAGTTCTTCTTCGACCGCAGCCCGTGCCTTCCGCGCC
ATCGTGGCGCTTTTTCGCGCAGGGAAGCTGCGACTGCTGCGGGGCCGCTGCGCGCTGGCC
TTCCGCGACGAGCTGGCCTACTGGGGCATCGACGAGGCGCGCTGGAGCGCTGCTGCCTG
CGCCGCTGCGCGCCGCGAGGAGGAGGCGGCGGAGGCCGCGCGGGGCGGACGGAGCGC
GGGGCGCAGGGGAGCCCGGCGCGCGCCCTGGGACCTCGGGGGCGGCTGCAGCGCGGCCGG
CGGCGCCTGCGCGACGTGGTGGACAACCCGCACTCGGGGCTGGCGGGCAAGCTCTTCGCC
TGCGTGTCCGTGTCCTTCGTGGCCGTACCGCCGTGGGCTCTGCCTGAGCACCATGCCG
GACATCCGCGCCGAGGAGGAGCGGGGCGAGTGCTCCCCAAGTGCCGAGCCTGTTCTGTG
CTGGAGACCGTGTGCGTGGCCTGGTTCTCCTTCGAGTTCCTGCTGCGCTCCCTGCAGGCC
GAGAGCAAGTGCGCCTTCCTGCGCGCGCCAATCAACATCATTGACATCCTGGCGCTCCTG
CCGTTCTACGTGTGCTGCTGCTGGGGCTGGCGGCAGGCCCGGGCGGGACCAAGCTCCTG
GAGCGCGCGGGGCTGGTGTGCTGCGGCTGCTGCGTGCCTGCGCGTCTACGTGATGCGC
CTGGCGCGCACTCGCTGGGGCTGCGTTCTGCTGGGCTGACCATGCGCCGCTGCGCGCGC
GAGTTCCGGGCTGCTGCTGCTGTTCTCTGCGTGGCCATGGCGCTCTTCGCGCCAATGGTG
CACCTGGCCGAGCGCGAGCTGGGCGCGCGCCGCGACTTCTCCAGCGTGCCCGCCAGCTAT
TGGTGGGCGGTATCTCCATGACCACCGTGGGCTACGGCGACATGGTCCCGCGCAGCCTG
CCCGGGCAGGTGGTGGCGCTCAGCAGCATCCTCAGCGGCATCCTGCTCATGGCCTTCCCG
GTCACCTCCATCTTCCACACCTTTTCGCGCTCCTACTCCGAGCTCAAGGAGCAGCAGCAG
CGCGCGGCCAGCCCCGAGCCGGCCCTGCAGGAGGACAGCAGCACTCGGCCACAGCCACC
GAGGACAGCTCGCAGGGCCCCGACAGCGCGGGCCTGGCCGACGACTCCGCGGATGCGCTG
TGGGTGCGGGCAGGGCGCTGA

Gene 14. >ENST00000316111 cDNA sequence

CAGGTTTGAAGGCGCTTTGAGTCCCCGCTGCTGTGGCAGAGCGCCATCATGATCCTGAC
CATGCTGCTGATGCTGAAGCTGTGACCGAGGTCCGTGTGGCCAACGAGCTCAACGCCAG
GCGCCGCTCCTTTACAGACTTCGACCCCCACCACTTCTGGCAGTGGAGCAGCTTCTCGGA
CTACGTGACGTGCGTCTTGGCCTTTCAGGGCGTGGCGGGCTACATCACCTACCTGTCCAT
TGACTCCGCCCTGTTTTGTGGAGACCCTGGGCTTCTGGCTGTGCTGACCGAAGCCATGCT
GGGTGTGCCCCAGCTTTACCGCAACCACCGCCACCAGTCCACGGAGGGCATGAGCATCAA
GATGGTGTCTCATGTGGACAGTGGTGACGCCTTCAAGACGGCCTACTTCTGCTGAAGGG
TGCCCTCTGCAGTTCTCCGTGTGCGGCCTGCTGCAGGTGCTGGTGGACCTGGCCATCCT
GGGGCAGGCCTACGCCTTCGCCCCGCCACCCCAAGCCGGCGCCCCACGCCGTGCACCC
CACTGGCACCAAGGCCCTCTGACAGTGGGGAGGACGAGGATGTGGGACCGCCAGCCGCGG

FIGURE 1 (CONT'D)

GCACTGGTGGGCCCTGACCTCCCGCGGGGAGGGTGGGTGCTGTGGCCCCTGCAGGTGTG
GCAGAGATGGGGCATGGGCATTGGGGTCTCCATCAGCCTCTGTGGGGTGTCTCAGGGTGG
GCAGTGGGGGTGGGGCTGGGACGCTGTTTGTGCTCAGCGGGGACAGCCAGGGTTGATCTG
GCCCCGAGGGTTTTTGGATGTTTTTAGGATGACATAAAAAGCAAGTGTTCCTCCATTTC
TCTTATGAAACACCGTCTGAGCCCAAGGTACACATTGGGCGGCCTGCAGGAACCTGCTCC
AGGTGGACACACGGGCCAGCAGCCGCGAACCTTGAAGCTGGGGTGACCGCAGGAGACCCT
GTAAGGCCTGTGAGCGGAGCCCTCGACCCCGTGACACCCTGGCCAGACACCCTGCTTGGA
CTGGGGTGGCCTCTGCTACCCAGGGGTCTGGCACGGGGGAGGGCTGGGGCTTTCTCTGCC
TGGTACACACGGAAGGCGGCTGTGCGGACGCAGGGTCACCGTGCTCCGGGTTTTCTGAC
AGTCCGTGTTTTCTGGGCCTTTGGAGTGGCTGCGAGGCCTGAACGCCTTGTGGATCCGCT
GTGTCCAGCCCGGCTGAGCATCGCCAGGGCTAGCTCATGCTGCTCTTGTGAGCCTCTGGT
TCTCCTCGAGTCCTTGGGGACGTGGCAGATGCCAGCGACCATCAGACAACGTGGAGGGCC
TCATGGGCAATGGCTGAGGGGGCCGGGCTGAGGCTGTGCACATGCAGTCTGCACGCCACT
CTTGGGCTCTGCTGGCGGAGATCCCTTCTCTTCTGGGTGCAGACTGCACCTCCGGATGCA
GTTTTGATGTCCATCTTCCAGGAGAGACGGTCTCGGGTCCAGGGAGTGGAGGGGGCTGCC
CCTGCCGTGCAGGTCTGGCCGATGGCGCCTTACCCTGCTGCCCTGGGCTTTTGGCCTGA
AGCAAATTCCTGAGTGGGGGGTACTGGGGCCTGCCGCATCCTGTCTGTCCACTGCCAC
CCCCGTGTGCTGGCTCCCTCACTTCTGGCTGCAGTGGGAGCCGCCAGTCTGACCCTTGTC
ACCGCACGCTCTGCCCCACCCCGTTGCAAGAGGTCAACCATGTGAGCAGCCTTGCACT
GACCGCAGCCGGCCCCCAGGCCTCAGAGTTCTGGATGCTTCCGTGCGGCTCCAACAGGCA
TCGTCTTCCCTTCCGCAGGTGGAGGGGCCGCTTCCCGCAGGCATCTGAGCTCTGTGCCGG
GGCGTGGCCATGGGAAGATGTTCCACGCTGCCTCCTCCTCGAGTTTTCTCGGAAACAC
TCTTGAATGTCTGAGTGGGGTCTGCTTAGCTCTTTGGCCTGTGAGATGCTTTGAAAAT
TTTTATTTTTTTAAGATGAAGCAAGATGTCTGTAGCGGTAATTGCCTCACATTAACTGT
CGCCGACTGCAGGCGCAGTGACTGCTGAATGTACCCTGTGTGGCGACTTGGAATCAATAA
ACCATTTGTGGATCCTG

Gene 15. >ENST00000262199 cDNA sequence

CGCAGGCCCCGAGGCCGAGGAGCGCGCGGAGCGGCGATGAGCAGGCGGCCGGTGGCCCG
CGGGGCGCGGAGCCCGTGACAGCCTCGGCCAGGCGGGCGCTGCGATGGAGGCCGAGGGCC
TGGACTGGCTCCTGGTGCCACTGCACCAAGCTGGTGTCTGGGGCGCGGCCGCGGCCATGG
TCTTCGGAGGGGTGGTGCCCTACGTCCCGCAGTATCGGGACATTGCGAGGACGCAGAACG
CCGACGGCTTCTCCACCTACGTGTGCCTGGTGTCTGCTGGTGGCCAACATTTTGGCGATAC
TCTTCTGGTTTTGGAAGGCGCTTTGAGTCCCCGCTGCTGTGGCAGAGCGCCATCATGATCC
TGACCATGCTGCTGATGCTGAAGCTGTGCACCGAGGTCCGTGTGGCCAACGAGCTCAACG
CCAGGCGCCGCTCCTTTACAGCTGCAGATAGCAAGGATGAAGAAGTCAAGGTTGCCCCCA
GGCGGTCTTCTCTGGACTTCGACCCCCACCACTTCTGGCAGTGGAGCAGCTTCTCGGACT
ACGTGCAGTGCCTCCTGGCCTTACGGGCGTGGCGGGCTACATCACCTACCTGTCCATTG
ACTCCGCCCTGTTTTGTGGAGACCCTGGGCTTCTGGCTGTGCTGACCGAAGCCATGCTGG
GTGTGCCCCAGCTTTACCGCAACCACCGCCACCAAGTCCACGGAGGGCATGAGCATCAAGA
TGGTGCTCATGTGGACCAAGTGGTGACGCCTTCAAGACGGCCTACTTCTCTGCTGAAGGGTG
CCCCTCTGCAGTTCTCCGTGTGCGGCCTGCTGCAGGTGCTGGTGGACCTGGCCATCCTGG
GGCAGGCCTACGCCTTCGCCCCGCCACCCCCAGAAGCCGGCGCCCCACGCCGTGCACCCCA
CTGGCACCAAGGCCCTCTGACAGTGGGGAGGACGAGGATGTGGGACCGCCAGCCGCGGGC
ACTGGTGGGCCCTGACCTCCCCGCGGGGAGGGTGGGTGCTGTGGCCCCTGCAGGTGTGGC
AGAGATGGGGCATGGGCATTGGGGTCTCCATCAGCCTCTGTGGGGTGTCTCAGGGTGGGC
AGTGGGGGTGGGGCTGGGACGCTGTTTGTGCTCAGCGGGGACAGCCAGGGTTGATCTGGC
CCCGAGGGTTTTTGGATGTTTTTAGGATGACATAAAAAGCAAGTGTTCCTCCATTTCCTC
TTATGAAACACCGTCTGAGCCCAAGGTACACATTGGGCGGCCTGCAGGAACCTGCTCCAG
GTGGACACACGGGCCAGCAGCCGCGAACCTTGAAGCTGGGGTGACCGCAGGAGACCCTGT
AAGGCCTGTGAGCGGAGCCCTCGACCCCGTGACACCCTGGCCAGACACCCTGCTTGGA
GGGGTGGCCTCTGCTACCCAGGGGTCTGGCACGGGGGAGGGCTGGGGCTTTCTCTGCCTG
GTACACACGGAAGGCGGCTGTGCGGACGCAGGGTCACCGTGCTCCGGGTTTTCTGACAG
TCGGTGTTCCTGGGCCTTTGGAGTGGCTGCGAGGCCTGAACGCCTTGTGGATCCGCTGT
GTCCAGCCCGGCTGAGCATCGCCAGGGCTAGCTCATGCTGCTCTTGTGAGCCTCTGGTTC

FIGURE 1 (CONT'D)

TCCTCGAGTCCTTGGGGACGTGGCAGATGCCAGCGACCATCAGACAACGTGGAGGCCCTC
ATGGGCAATGGCTGAGGGGGCCGGGCTGAGGCTGTGCACATGCAGTCTGCACGCCACTCT
TGGGCTCTGCTGGCGGAGATCCCTTCTTCTGGGTGCAGACTGCACCTCCGGATGCAGT
TTTGATGTCCATCTTCCAGGAGAGACGGTCTCGGGTCCAGGGAGTGGAGGGGGCTGCCCC
TGCCGTGCAGGTCTGGCCGATGGCGCCTTACCCTGCTGCCCTGGGCTTTTGGCCTGAAG
CAAATTCCTGAGTGGGGGGTACTGGGGCCTGCCGCATCCTGTCTGTCCA CTGCCCACCC
CCGTGTGCTGGCTCCCTCACTTCTGGCTGCAGTGGGAGCCGCCAGTCTGACCCTTGT CAC
CGCACGCTCTGCCCCACCCCGTTGCAAGAGGT CACACCATGT CAGCAGCCTTGCACTGA
CCGCAGCCGGCCCCCAGGCCTCAGAGTTCTGGATGCTTCCGTGCGGCTCCAACAGGCATC
GTCTTCCCTTCCGCAGGTGGAGGGGCGCTTCCCGCAGGCATCTGAGCTCTGTGCCGGGG
CCGTGGCCATGGGAAGATGTTCCACGCTGCCTCCTCCTCGAGTTTTCTCGGAAACACTC
TTGAATGTCTGAGTGAGGGTCTGTCTTAGCTCTTTGGCCTGTGAGATGCTTTGAAAATTT
TTATTTTTTTTAAGATGAAGCAAGATGTCTGTAGCGGTAATTGCCTCACATTAAACTGTGC
CCGACTGC

Gene 16. >ENST00000299466 cDNA sequence

ATGTCTCGGCGCAAGCAGGCCAAGCCCCAGCACCTCAAGTCGGA CGAGGAGCTGCTGCCG
CCTGACGGGGCTCCCGAGCAGCGCGCCCCGGGGGAAGGTGCGGAGGACGCAGACAGCGGG
CCCGAGAGCCGCAGCGGGGGCGAGGAGACCAGCGTGTGCGAGAAATGCTGCGCCGAGTTC
TTCAAGTGGGCGGACTTCTTGAGCACAGCGGAGCTGCACCAAGCTCCCGCCCGTGCTG
ATCGTGACAGGAGCGCGCCGCGCGCCCCCGAGGACTTCCCGAGCCTTCGCCCGCC
AGCTCCCCCAGCGAGCGCGCGGAAAGCGAGGCGGCCGAGGAGGCGGGTGCAGAGGGCGCG
GAGGGCGAGGCCAGGCCGGTGGAGAAGGAGGCCGAGCCCATGGACGCGGAACCCGCGGGG
GACACGCGCGCGCCCCGGCCCCCGCCTGCGGGCCCTGCACCCCCAACGCCCCCCTACGGC
GCGCCAGCACCAACGTGACCTGGAGGCGCTGCTGAGCACCAAGGTGGCGGTGGCGCAG
TTCTCGCAGGGCGCGCGCGCGGCGGCGGCTCGGGAGCAGGTGGAGGCGTGGCAGCTGCA
GCCGTGCCCCCTGATCCTGGAACAGCTCATGGCCCTGCAGCAGCAGCAGATCCACCAGCTG
CAGCTCATCGAGCAGATCCGCAGCCAGGTGGCCCTCATGCAGCGCCCGCCCGCGGGCCC
TCACTCAGCCCCCGCGCCGCCCGAGCGCACCGGGCCCGGCCCCAGCCAGCTGCCCGGG
CTGGCCGCGCTCCCGCTGTGCGCCGGGGCCCCCTGCCGCCGCCATCGCGGGCTCGGGCCCC
GCCGCCCGGGCCGCCTTCGAGGGCGCGCAGCCGCTGTCCCGGCCCGAGTCTGGCGCCAGC
ACCCCCGGCGGCCCTGCGGAGCCAGCGCGCCCCCGGCCCCCCAGCGCCGCCCTGCCCCCC
GCTGCCCCCCCGCCCCGGCGCCAGCGCCGAGAGCGCAGCCTCGTTCGAGCCGCGAGAGCGCA
TCCACGCCGCCTGCCCTGGCCCCGGGGTCCCTGCTGGGTGCGGCGCCCGGCCTGCCAAGT
CCGCTTCTACCTCAGACTTCCGCCAGCGGCGTCATCTTCCCAACCCGCTGGT CAGCATC
GCGGCCACGGCCAACGCTCTGGACCCGCTGTCCGCGCTCATGAAGCACCGCAAGGGCAAG
CCGCCCAATGTGTGGTGTTCGAGCCCAAAGCCAGCGCCGAGGACCCGTTCTTCAAGCAC
AAATGCCGCTTCTGCGCCAAGGTCTTCGGCAGCGACAGCGCGCTCCAGATCCACCTGCGC
TCGCACACAGGCGAGCGGCCCTTCAAGTGCAACATCTGCGGGAACCGCTTCTCCACAAA
GGCAACCTGAAGGTGCACTTCCAGAGGCACAAGGAGAAGTACCCCCACATCCAGATGAAC
CCTTACCCGGTCCCCGAGTACCTGGACAACGTGCCCACTGCTCGGGCATCCCCTACGGC
ATGTGCTGCCCCCGAGAAGCCCGTGACCACCTGGCTGGACAGCAAGCCCGTGCTGCCC
ACCGTGCCACGTCCGTGGGGCTGCAACTGCCGCCCACTGTCCCTGGCGCGCACGGCTAC
GCCGACTCTCCAGCGCCACCCAGCCAGCCGCTCCCCGAGAGGCCCTCGCCCGCCTCC
AGCGAGTGCGCCTCCTTGTCCCCAGGCCTCAACCACGTGGAGTCCGGCGTGT CGGCCACC
GCCGAGTCCCCACAGTCTCTCCTCGGCGGGCGCCCCCTCACTAAAGCCGAGCCCGTCAGC
CTGCCCTGCACCAACGCCAGGGCCGGGGACGCTCCCGTGGGCGCGCAGGCTAGCGCTGCA
CCCACATCGGTGGACGGCGCACCCACGAGCCTCGGCAGCCCCGGGCTGCCCGCCGTCTCC
GAGCAGTTCAAGGCCAGTTTCCGTTTCGGGGGGCTGCTAGACTCGATGCAACGT CGGAA
ACCTCGAAGCTGCAGCAGCTGGTGGAGAACATCGACAAGAAGATGACGGACCCGAAACAG
TGCGTCATCTGCCACCGGGTGTCTGAGCTGCCAGAGCGCGCTGAAGATGCACTACCGGACG
CACACGGGGGAGCGGCCGTTCAAGTGCAAGATCTGCGGCCGCGCCTTCACCACCAAGGGC
AACCTCAAGACGCACCTTCGGCGTGACCGTGCAAAGCCGCCCTGCGCGTGCAGCACTCC
TGCCCCATCTGCCAGAAGAAGTTCACCAACGCCGTGGTCTTG CAGCAGCACATCCGCATG
CACATGGGCGGCCAGATCCCCAACACGCCGCTGCCGGAGGGCTTCCAGGATGCCATGGAC

FIGURE 1 (CONT'D)

TCCGAGCTGGCCTACGACGACAAGAACGCGGAGACCCTGAGCAGCTACGATGACGACATG
GACGAGAACTCCATGGAGGACGACGCTGAGCTGAAGGACGCGGCACCGACCCGGCCAAG
CCACTCCTGTCTACGCGGGTCTGCCCCCTCCCGCCCTCGGTATCTCCAGCATT
GCCGCCCTGGAGAACCAGATGAAGATGATCGACTCGGTATGAGCTGCCAGCAGCTGACC
GGCCTCAAGTCCGTGGAGAACGGGTCCGGGGAGAGTGACCGCCTGAGCAACGACTCCTCG
TCGGCCGTGGGCGACCTGGAGAGCCGAGCGCGGGCAGCCCCGCCCTGTCCGAGTCCTCG
TCCTCGCAGGCCCTGTGCGCGGCCCCAGCAATGGTGAGAGCTTCCGCTCCAAGTCCCCG
GGCCTGGGCGCCCCGGAGGAGCCCCAGGAAATCCCGCTCAAGACCGAGAGGCCGGACAGC
CCAGCCGCCGCCCGGGCAGCGGAGGCGCCCCCTGGCCGCGCGGGCATCAAGGAGGAGGCG
CCCTTCAGCCTGCTGTTCTGAGCAGGGAGCGGGTAAGTGTCCAGCACTGTGTGTGGT
GTCTGTGGCAAGCCTTTTGTCTGCAAGAGCGCGTTGGAAATCCACTACCGCAGCCATACT
AAGGAGCGGCCATTCTGTCTGCGCGCTCTGCAGGCGAGGGTGCTCCACTATGGGTAATTTA
AAACAGCACTTACTGACACACAGATTGAAAGAGCTGCCTTCTCAGTTATTTGACCCCAAC
TTTGCTCTAGGTCCAGCCAAAGCACTCCTAGCCTGATCTCCAGCGCCGACCCACCATG
ATCAAAATGGAAGTGAACGGTCACGGCAAGGCCATGGCGCTGGGCGAGGGTCCCCCGCTG
CCCGCGGGCGTCCAGGTCCCCGCCGGGCCTCAGACAGTGATGGGCCCCGGGCCTGGCGCCC
ATGCTGGCCCCCCCCACCGCGCCGGACGCCCAAGCAGCACAACCTGCCAGTCGTGCGGGAAG
ACCTTCTCCTCGGCCAGCGCCCTGCAGATCCATGAGCGCACGCACACCGGCGAGAAGCCG
TTCGGCTGCACCATCTGCGGCCGGGCCTTCACCACTAAGGGCAACCTCAAGGTGCACATG
GGGACACACATGTGGAATAACGCCCCCGGAGACGCGGCCGCCGCTGTCTGTGGAGAAC
CCCATGGCTCTCCTAGGGGGTGATGCCCTGAAGTTCTCTGAAATGTTCCAGAAGGACCTG
GCAGCTCGGGCAATGAACGTCGACCCAGTTTTTTGGAACAGTATGCTGCAGCCATCACT
AACGGGCTCGCCATGAAGAACAAACGAGATCTCCGTATCCAGAACGGCGGCATCCCCAG
CTCCCCGTGAGTCTTGGGGGCGAGCGCCCTCCCCCTCTGGGCAGCATGGCCAGTGGGATG
GACAAAGCAGCACTGGCAGTAGCCCAACCCATCGTCAGCTTGGAACAAAGCAGCTCAGAA
ACAGCAGCCAGCCGCCATTACGCGGTTTTATCGAGGATAACAAGGAGATTGGTATCAAC
TAGCCAGTGACTCGCTCATCTGCCCTGCCAGGCCACGTTTTGAAGTTGGAGCATCAGG
CCTCCGACCTTTCTTGCTCGGTTCTCATTACATTTACCCATAGCAGAAAACACTTTG
TGCGGCTGCCGAGAGGTGGTCTTTGTAAGCGCTGCATGGCGCTCCCTTCAACAGCAAGCCT
GACTGTTCTCGAGAACTCTGCAATCTTTTAAATAAGCTTCCTTCAAAAAAAAAAGTGCTT
GGAAAACCGCCTTAGGAACAGAAAGAGCTCAGACCATGTCCACTTCCTTTCTCCTGAAAC
CTAATAATCTCTCCGAGGGAGAAAGGGGTTCTCTGCGGTATTCCAGTGAAACTCATTGTA
TGGTTTTCTTTGAAATTAGTTAGACACTTGAACGGTGTTTTTTAGAACTCTTCATGTTAAA
GACGTGGTTTTAGTACTCCAATGCTGTGTATCATGACACTATCTTCGTCTGTAGTATTTA
TGATGTTAAGATAATGCGGGTAACAGACAATATAATAGCCCCGACCTTAAACGAAGCTTT
TGTAATGCAAGATATCATCTGGCTGTGTGATTTTTTTTTTTTAAAGCAAGATTTGTTTTACTA
TAAATAAGTGGATTATTTCAATGCAGGCAAAATTGTGAAGTTCTGTTGGGAAAGATAGCA
TGCTTTTTCGTGTGCAAGTACCTGTGAGTAATAAGCCTTTTTTTTTTTTTTTTTTAATTTA
AATGTTTGTAGCTGCTATGTGGACAGTTGTTTTCTAGTGTGGTCTGTAGCCCAATAACTG
GGGAACGAGTTACAGACAAACATCACCGTAAATGACTCACAACATTATAAACAGTTGTGA
GAAAATATTTACATTATCAAAGCTGTAC

Gene 17. >ENST00000334423 cDNA sequence

GGGCCTGGACGGCCGGCGTCTCCTTCTCCAGGTAATCAGGGCCCCCTCTACGTGGCCTCCC
GGGGCCCCCTCTGGGGAGGCAGCCTGGCATCTCACAGGCGGCCGGGGCTCCCGGAAGCAG
AGACGGGCTGTGCCAGGGCTCCTAGGCCAGGCCTGGACCCAGTGCCGTGCCAGCCACCA
CCCCAGGGGCCCTGCCCTGGTTCGCAGGGAGACACACAGAAATGTGGGAGGCCGGGTGGC
CTGCACGAGCCCCCTCCCGAGGCCCCCAGCCCAGCACATCCAGAGCCCTCCCCCTGAGAAA
CCCCAGACAGCCAGGTTTCGCCCCAAACCCAAACATGGTGGGACCCAGCTCGCCCCCATC
TCACGGCCGCCCCATCCACGGCCGCCCCATCCACGGCCGCCCCATCCACGGCCGCCCC
CATCCTCTGGCCCTGGATGTTACCAC

Gene 18. >ENST00000320610 cDNA sequence

GCCTGGAAACTACAAAGGATTGTGTTAATTTTGTGTTTAGGAAGAAAGAGGTAATGGGTA
GGAATCAATGTAAACTTATTATAGGCCACACCAAACAGGAATTCTTGTCGTGATTGCA
CTTGGTAGAGTTAACACACGTGCACATTACGGAAACGTTGGTGACCAACAGGCGTTTCAG

FIGURE 1 (CONT'D)

CGAGCTTTTCGCACACCTCATGGGCCTTTGTGGGCTGCTGGAGAGATGTTGGCTGCACCAT
 GACCCAGATGGAGTTTTTAACATTGAATGCGGAGAACTAATTATGCCTATCAAGTTCCA
 AACTTCCATAAATGTGAAATCTGTCTACTATCTTTTCCAAAAGAATCCAGTTTCAACGC
 CACATGAGGGATCACGAGCGAAATGACAAGCCACATCGATGTGACCAGTGCCCCCAAACA
 TTTAATGTTGAATTCAACCTGACACTTCATAAATGCACCCACAGCGGGGAAGATCCTACC
 TGCCCTGTGTGTAACAAGAAATTCTCCAGAGTGGCTAGTCTCAAAGCGCATATTATGCTA
 CATGAAAAGGAAGAGAATCTCATCTGTTCTGAGTGTGGGGATGAGTTTACTCTGCAGAGT
 CAGCTGGCCGTGCACATGGAGGAGCACCGCCAGGAGCTGGCTGGAACCCGGCAGCATGCC
 TGCAAGGCCTGCAAGAAAGAGTTTCGAGACCTCCTCGGAGCTGAAGGAACACATGAAGACT
 CATTACAAAATTAGGGTATCAAGTACAAGGTCTTATAACCGGAATATCGACAGAAGTGGA
 TTCACGTATTTCGTGTCCGCACTGTGGAAAGACGTTTCAAAGCCAAGCCAGTTAACGCGA
 CACATTAGGATACACACAGGTGAAAGGCCGTTCAAATGTAGTGAATGTGGAAAGGCTTTT
 AACCAGAAGGGGGCACTGCAGACCCACATGATCAAGCACACAGGTGAAAAACCCCATGCC
 TGTGCCTTCTGTCTGCGCCTTCTCTCAGAAAGGGAATCTTCAGTCGCACGTGCAGCGA
 GTCCACTCAGAGGTCAAGAATGGTCTACCTATAACTGTACAGAATGTAGTTGTGTATTT
 AAAAGTTTTAGGCAGCTTAAACACGCATATCAGCAAGATGCATATGGGTGGGCCACAGAAT
 TCAACAAGTTCTACAGAGACTGCTCATGTTTTAACGGCCACACTTTTTTCAGACGTTACCT
 CTTCAACAGACGGAAGCCCAAGCCACGTCCGCCCTCAAGCCAGCCGAGCTCCAGGCGGTG
 AGCGACGTATCCAGCAGCTCCTGGAGCTCTCAGAGCCGGCGCCGTTGGAGTCGGGGCAG
 TCCCCGAGCCTGGGCAGCAGCTGAGCATCACAGTGGGCATCAACCAGGACATTTTACAG
 CAAGCCTTAGAAAAACAGTGGGCTGTCTTCAATTCCAGCTGCAGCACATCCTAATGACTCC
 TGCCATGCCAAGACCTCTGCACCACACGCTCAAAACCCAGATGTTTCCAGCGTTTCAAAT
 GAGCAGACGGACCCACAGACGCAGAGCAAGAAAAAGAACAGGAAAGCCCGGAGAACTG
 GATAAAAAAGAAAAAAAATGATAAAGAAGAAGTACCCTTTCTACCTGGCTCCATCCGC
 GAGGAGAACGGCGTGCCTGGCATGTGTGTCCCTACTGCGCAAGGAGTTCGCAAGCCC
 AGCGACCTGGTCCGCCACATCCGCATCCACACCCACGAGAAGCCCTTCAAGTGCCCGCAG
 TGCTTCCGCGCCTTCGCCGTGAAGAGCACGCTGACAGCGCACATCAAGACGCACACCGGC
 ATCAAGGCGTTCAAGTGCCAGTACTGCATGAAGAGCTTCTCCACCTCTGGCAGCCTCAAG
 GTGCACATTTCGCTGCACACAGGAGTTAGACCTTTTGCTTGTCTCACTGTGACAAAAAA
 TTTTCGAACCTCAGGCCATAGGAAGACTCACATTGCTTCCACTTTAAACATACGGAATTA
 AGGAAAATGAGGCACCAGCGTAAACCTGCAAAGGTCCGTGTTGGCAAGACGAATATTCCA
 GTCCCTGATATTCTTTTGAGGAACCAATCCTCATAACTGACTTAGGTCTCATCCAGCCC
 ATTCCAAAAAACAGTTTTTCCAAAGCTATTTCAATAATAATTTTGTCAATGAAGCAGAT
 AGACCATAACAAGTGTTTTTACTGTTCATCGTGCATATAAAAAATCTTGCCACCTTAAACAA
 CACATCAGATCCCATACAGGTGAAAAACCTTTTAAATGTTCTCAGTGTGGAAGAGGCTTT
 GTTTCTGCAGGCGTGCTCAAAGCACACATCAGAACACACACAGGACTGAAATCTTTCAAG
 TGTCTGATATGTAATGGGGCTTTCACTACTGGTGGCAGCTTACGGCGACACATGGGTATC
 CACAACGACCTTCGTCCCTATATGTGTCCCTATTGCCAAAAAACATTTAAGACTTCACTA
 AATTGCAAAAAGCACATGAAAAACCCACAGATATGAGCTTGCCAGCAGCTCCAACAGCAT
 CAGCAGGCAGCCTCGATAGATGACAGCACTGTAGACCAGCAGAGCATGCAGGCCTCCACT
 CAAATGCAGGTGGAGATCGAGAGCGACGAGCTGCCGAGACGGCAGAGGTGGTCGAGCG
 AACCCCGAGGCCATGCTGGACCTGGAGCCTCAGCATGTGGTGGGCACGGAGGAAGCAGGG
 CTGGGCCAGCAGTTGGCAGATCAGCCCCTGGAAGCAGATGAAGATGGGTTTGTGGCTCCA
 CAGGACCCTCTGCGAGGGCACGTAGACCAGTTTGAAGAGCAGAGCCCTGCGCAACAGTCC
 TTCGAACCAGCAGGGCTACCCCAAGGTTTTACAGTGAAGTACGTACCATCAGCAGCCT
 CAGTTTTCCACCTGTCCAAAGCTACAGGATTCCAGCACACTTGAGTCTCAGGCCCTCTCC
 ACAAGCTTCCACCAGCAGAGCTTGCTGCAGGCTCCAGCTCTGATGGGATGAATGTAAACA
 ACTCGCTTGATTGAGGAGTCATCCCAAGAGGAACTGGACCTGCAGGCACAAGGTTCCAG
 TTTCTGGAGGACAAAGAGGACAGAGCAGGCGCTTTACAGGTGTGACTATTGCAACAAA
 GGCTTTAAGAAGTCCAGCCACCTGAAGCAGCATGTGCGGTGCGACACCGGGGAAAAGCCC
 TACAAGTGCAAGCTCTGTGGACGCGGCTTTGTTTCTCTGGGGTCTCAAGTCCACAGAG
 AAGACACACACAGGAGTGAAGGCGTTGAGTGCAGTGTGTGCAATGCTTCTTACCACC
 AATGGCAGCCTCACCCGGCAGATGGCCACACATATGAGCATGAAGCCTTATAAGTGTCCG
 TTTTGTGAGGAGGGTTTCCGAACTACAGTGCATTGTAAAAAGCACATGAAGAGACACCAA

FIGURE 1 (CONT'D)

ACAGTCCCCTCTGCTGTGTGTCAGCCACTGGAGAGACAGAAGGAGGAGACATTTGTATGGAG
GAAGAGGAAGAACATTCTGACAGAAATGCATCACGGAAGTCTCGTCCTGAGGTCACTACT
TTCACGGAGGAGGAGACAGCCCAGTTAGCCAAGATCCGGCCGAGGAGAGCGCCACGGTG
TCAGAGAAGGTCCTGGTGAGTCCGCGGCAGAAAAGGACCGCATCAGTGAGCTGAGGGAC
AAGCAGGCGGAGCTGCAGGACGAGCCCAAGCACGCCAACTGCTGCACATACTGCCCCAAG
AGCTTCAAGAAACCTAGCGACCTGGTGAGGCATGTTTGAATCCATACTGGAGAAAAGCCA
TACAAATGTGATGAATGTGGAAAGAGTTTTACTGTGAAATCCACTCTCGATTGTCTGTG
AAGACTCACACAGGTGAGAAGCTCTTCAGCTGTACGTCTGCAGCAACGCCTTCTCCACG
AAGGGAAGTCTGAAGGTCACATGCGCCTGCACACGGGAGCCAAGCCCTTCAAATGCCCG
CATTGCGAGCTGCGTTTTCCGTACCTCGGGTAGAAGAAAGACACATGCAGTTTCATTAT
AAACCAGACCCAAAGAAGGCCAGAAAGCCTATGACTCGAAGCTCATCGGAAGGACTGCAG
CCTGTAAACCTCCTCAACTCCTCCTCTACTGACCCAAACGTGTTTTATCATGAACAACTCT
GTTCTAACAGGACAGTTTTGATCAGAATCTGCTGCAACCAGGACTGGTGGGCCAAGCTATT
CTCCCTGCCTCTGTGTGAGCTGGGGGTGACCTGACCGTGTCTCTGACAGATGGGAGCCTG
GCTACCCTAGAAGGCATCCAGTTACAGTTGGCTGCTAACTTGGTTGGACCAAATGTACAG
ATTTCTGGAATCGATGCTGCCAGCATTAATAACATTACGTTGAGATTGATCCAAGCATT
CTGCAGCAGACGCTACAGCAGGGCAACCTATTGGCTCAGCAGCTCACGGGGGAGCCTGGC
CTGGCCCCACAGAACAGCTCTCTCCAGACATCGGACAGCACGGTCCCTGCCAGTGTTGTC
ATCCAGCCCATCTCAGGCCTGTCTTACAGCCACAGTGACCTCTGCGAACCTGACCATA
GGCCCCGCTGTCTGAGCAGGATTGAGTGCTGACCACTAACAGCAGTGGGACCCAAGACCTC
ACTCAAGTGATGACTTCGCAAGGTCTAGTGTCCTCCCTCCGGCGGTCCCCACGAGATCACC
CTGACCATTAAACAACTCCAGCCTGAGCCAGGTCTTGGCACAGGCCGCTGGGCCCCACTGCC
ACGTCTTCTCGGGGTCTCCACAGGAAATTACCCTGACTATCTCCGAACCTTAACACTACA
AGCGGAAGCCTTCTTCAACAACACCGATGTCTCCATCGGCCATCTCGACTCAGAACCTG
GTCATGTCTCTCGTGGGGCTGGGAGGTGACGCTAGTGTCACGCTGACGCTGGCCGATACT
CAGGGTATGCTATCTGGAGGCCTGGACACTGTCACTCAACATCACTCTCAGGCAATA
CTAATCTTTTTGCCAGGGTCAGCAGTTCCAGCGCTCCTCAGGATCCCTCTCTCTCGGGC
CAGGGTGGAGCAGGCTCGCCGCAAGTCATACTAGTGAGCCACACGCCACAGTCAGCGTCT
GCTGCTTGTGAAGAAATAGCCTACCAGGTAGCTGGCGTCTCTGGGAACCTGGCCCCGGGC
AACCAGCCAGAGAAGGAGGGCCGGGCGCACCGAGTGCTGGAGTGTGACCGCGCCTTCTCA
TCGGCGGGCGGTGCTCATGCACCAAGCAAGGAGGTGCATGGCCGGGAGCGCATCCACGGC
TGCCCCGTGTGCAGGAAGGCCTTCAAGCGCGCCACGCACCTCAAGGAGCACATGCAGACA
CACCAGGCCGGCCCCCTCTTTGAGCTCCCAGAAGCCAAGAGTGTAAATGTGACACTTGT
GAGAAGGCATTTGCCAAACCAAGCCAGCTGGAGCGCCACAGCCGCATACATACAGGGGAG
CGGCCGTTCCATTGCACGCTTTGTGAGAAAGCCTTCAACCAGAAGAGTGCGCTGCAGGTG
CACATGAAGAAGCACACGGGGGAGCGGCCCTACAAGTGTGCTTACTGCGTCATGGGCTTC
ACGCAGAAGAGCAACATGAAGCTGCACATGAAGCGGGCGCACAGCTATGCTGGAGCTCTG
CAGGAGTCTGCAGGTCAACCGGAGCAGGACGGGGAGGAGCTGAGCCGGACCTCCACCTG
GAGGAGGTGGTGAGGAGGCCGCGGCGAGTGGCAGGCCCTCACCCAGTCTTCTGATGC
GAGTTGGAAGTACACCTTTAAGAATGTTTCTGAAGTTACGTTTTGTGAAGAGCAAAGCAC
TTGGAATCTCCGTTTTAAAGCTTCAAGTGTTAAAAATGCTACAATAGTTTTTTTATCTATA
AAATTATCTAAAGAATCATTGTCTTTTCTAGAGACTCATAGGAAAAAAAAACTAGGAAAAGT
GTCACCGCATTGTTCTCTTTTGTCTACAAATCACTGAACTCAGGTACTACTGTAGGCAGT
TTCCTCCTCAGTCTCCTCCGTGGCTAGTGCTGTCTAGTTACGAAGCAATTAACCTGGGTCT
TACTATCATTGTAGTGATTTCTTTGTATTAGCAAAGACAAAAACGCTAACATTGAAAA
AGTATGTGAGATTTTCTTTCATGTTTCTGGTTATAAGAAGCATAGCTTACAAAGCAAGCG
TAAGATTGAGGCATGAAGTTGAGAAAAAAGTGTTACAACACACAGGGAAGTTTTTTTCC
ACTCTTTTCTCTGTGCATTTTGAATAATTAGTCAAAATGGACTCTTTTTCAGTCTACCATAA
GTTAATATAACTGATACCTTGAGAGATGGCTGGACCAATTCTCTCCATGACAAATGTTTA
ATCATTAGTTACAAGAATGCAGTATCTGGGGCGTCAACATGGGGACTCGAGTAAACCTGA
CCCACCAATAAGGATTGAGTGTCCACACGGGCTGGCGACACACTTACCGCATCAATCTG
TGTTCAGGTCCAGGGTTACATAATTGCAGAAGCACAAAGCCATACATCGCAGGTAGGAAAC
CACAGAACCGTCTGCAAGGAGCAAGCAACGGTGGCCCTGTCCACCCAGCAAATAAGAAG
CATATCTGTAGCTTAAGGCCACGAATCCGTAAAAACCCCATGACTTTCTCTTCGTGCATA

FIGURE 1 (CONT'D)

AACAGATGATTTTTGATTTT CAGGGAATTCTTTAGTATCGTCAATGGTGCCACATAAAAC
 ATGTCCCAAACCAAATCCCAACCGTGCTGGGCAGAGTGCCTGCACGCCATTCTACAGCA
 TTCCAAAGATGGAAGGTTCTTTACTTCATGTTAATTTTTCTTTGAAATTATTTATATGT
 TCTATATATAAATACATATGTACATAGATATATGGGCCTCTGTGTGGCTGAACAGTATAT
 TTTGTAAATATAAGTACTAGTCCTAATTGCAGAAAGAGCGTCAGTTT CACCTCCCCACGA
 GCACTTCAGATCAGTATTGTATT CATTTTATT CATAAATGGATATCTTTTTT CATTGT CAT
 ATAAAGCTGGGTTTTATTTTTTTTTT CCTGAAAAATAATTGCCTTTATTTTTCTCTCGTTGC
 CTCCTTGGTTTT CAGAAGAGAGTAGTTTTATTATAAATATTGTATGGACTTTGTATATTAA
 GAGAGGAGCTCATTT CAGATT CCTAAAGAAATAGACATTTTACTGTTATTTTGAAAGGGC
 ATCTTTTGATTTTTTTTGTGTTGTTGTT CACTTTTGGCATATGTATATAAGTAATATTGA
 CGGTGATATGAAACTTTTGTATGTGAAGATATTTAAGTCAGAAAATTGTTAAATAATA
 TTACTTCTTTTCCAACTGCTTTGTGTATTGTATATTTTTTTTAAGAAAAAGAAAAGCCTT
 ATTTGACTTATGCTTGTGATACTGGACTTCTTACCAATCCGGAGGTTTCTTCCTTGAAT
 GTCAGTGTGTAAACCTGGCTGTAGCCGCATATGCAGAATAACTGTAATTGTGCTAGAGTT
 TTAAAGGTTCTGCTTTTAAATGCACCTTTTATTTTATAATTTTGTATTGAAATATTTTAGA
 AATGTTGATTAATTTTTGGTGAAAAAATATCCCAAAGTGGAATTTATTGGAATTTTAAAC
 TTTTGTCTTGTCTGGGTTATTTATTTTGTATTTTAGCATTAATGT CATCTCAGGACATCT
 CTAAGAGGGGTTGTTTAAATTCTAATTGTATAGAAAGCTAGTTTGGTGAATTGTATTGGT
 TAATTGACTGTTTAAAGGCCTTAAACAGGTGAATCTAGAGCCTACTTTTATTTTGGTTAAAG
 AAAAGAAAATATCAATAATTCAATTTTGTGTCTTTTCTCAATTTATTAGCAAACACAAG
 ACATTTTATGTATTATTTTCGATTTACTTCTAATTATAAAAGCTGCTTTTTTGCAGAACAT
 TTCCTTGAAAATATAAGGTTTTGAAAAGACATAATTTTACTTGAATCTTTGTGGGTACA
 GGTTGATCTTTATATTTTACTGGTTGTTTTAAAAATTCTAGAAAAGAGATTTCTAGGCCT
 CATGTATAACCAGGGTTTTGAGGATAAAGAACTGTATTTTTTAGAACTATCTCATCATAGC
 ATATCTGCTTTGGAATAACTATAAATAAAAGATGAAGTTAGG

Gene 19. >ENST00000253159 cDNA sequence

GCCTGGAAACTACAAAGGATTGTGTTAATTTTTGTGTTTAGGAAGAAAGAGGTAATGGGTA
 GGAATCAATGTAAACTTATT CATAGGCCACACCAAACAGGAATTCTTGTCTGTGATTGCA
 CTTGGTAGAGTTAACACACGTGCACATTACGGAAACGTTGGTGACCAACAGGCGTTTCAG
 CGAGCTTTTCGCACACCTCATGGGCCTTTGTGGGCTGCTGGAGAGATGTTGGCTGCACCAT
 GACCCAGATGGAGTTTTTAACATTGAATGCGGAGAACACTAATTATGCCTATCAAGTTCCA
 AACTTCCATAAATGTGAAATCTGTCTACTATCTTTTCCAAAAGAATCCAGTTTCAACGC
 CACATGAGGGATCACGAGCGAAATGACAAGCCACATCGATGTGACCAGTGCCCCCAAACA
 TTTAATGTTGAATTCAACCTGACACTTCATAAATGCACCCACAGCGGGGAAGATCCTACC
 TGCCCTGTGTGTAAACAAGAAATTCTCCAGAGTGGCTAGTCTCAAAGCGCATATTATGCTA
 CATGAAAAGGAAGAGAATCTCATCTGTTCTGAGTGTGGGGATGAGTTTACTCTGCAGAGT
 CAGCTGGCCGTGCACATGGAGGAGCACCGCCAGGAGCTGGCTGGAACCCGGCAGCATGCC
 TGCAAGGCCTGCAAGAAAGAGTTGAGACCTCCTCGGAGCTGAAGGAACACATGAAGACT
 CATTACAAAATTAGGGTATCAAGTACAAGGTCTTATAACCGGAATATCGACAGAAGTGGA
 TTCACGTATTCTGTGTCGCACTGTGGAAAGACGTTTCAAAGCCAAGCCAGTTAACGCGA
 CACATTAGGATACACACAGGTGAAAGGCCGTTCAAATGTAGTGAATGTGGAAAGGCTTTT
 AACCAGAAGGGGGCACTGCAGACCCACATGATCAAGCACACAGGTGAAAAACCCCATGCC
 TGTGCCTTCTGTCTGCGCCTTCTCTCAGAAAGGAATCTT CAGTCGCACGTGCAGCGA
 GTCCACTCAGAGGTCAAGAATGGTCCTACCTATAACTGTACAGAATGTAGTTGTGTATTT
 AAAAGTTTAGGCAGCTTAAACACGCATATCAGCAAGATGCATATGGGTGGGCCACAGAAT
 TCAAACAAGTTCTACAGAGACTGCTCATGTTTTTAAACGGCCACACTTTTTTCAGACGTTACCT
 CTTCAACAGACGGAAGCCCAAGCCACGTCCGGCCTCAAGCCAGCCGAGCTCCCAGGCGGTG
 AGCGACGT CATCCAGCAGCTCCTGGAGCTCTCAGAGCCGGCGCCGGTGGAGTCGGGGCAG
 TCCCCGAGCCTGGGCAGCAGCTGAGCATCACAGTGGGCATCAACCAGGACATTTTACAG
 CAAGCCTTAGAAAACAGTGGGCTGTCTTCAATTCCAGCTGCAGCACATCCTAATGACTCC
 TGCCATGCCAAGACCTCTGCACCACACGCTCAAAAACCCAGATGTTTTCCAGCGTTTCAAAT
 GAGCAGACGGACCCACAGACGAGCAAGAAAAAGAACAGGAAAGCCCGGAGAAACTG
 GATAAAAAAGAAAAAAAATGATAAAGAAAGAGTCAACGTTTTCTACCTGGCTCCATCCGC
 GAGGAGAACGGCGTGCCTGGCATGTGTGTCCCTACTGCGCCAAGGAGTTCCGCAAGCCC

FIGURE 1 (CONT'D)

AGCGACCTGGTCCGCCACATCCGCATCCACACCCACGAGAAGCCCTTCAAGTGCCCGCAG
 TGCTTCCGCGCCTTCGCCGTGAAGAGCACGCTGACAGCGCACATCAAGACGCACACCGGC
 ATCAAGGCGTTCAAGTGCCAGTACTGCATGAAGAGCTTCTCCACCTCTGGCAGCCTCAAG
 GTGCACATTTCGCCTGCACACAGGAGTTAGACCTTTTGTCTGTCTCACTGTGACAAAAA
 TTTTCGAACCTCAGGCCATAGGAAGACTCACATTGCTTCCCACTTTAAACATACGGAATTA
 AGGAAAATGAGGCACCAGCGTAAACCTGCAAAGGTCCGTGTTGGCAAGACGAATATTCCA
 GTCCCTGATATTCTTTGAGGAACCAATCCTCATAACTGACTTAGGTCTCATCCAGCCC
 ATTCCAAAAAACCAGTTTTTCAAAGCTATTTCAATAATAATTTTGTCAATGAAGCAGAT
 AGACCATACAAGTGTCTTTACTGTATCGTGCATATAAAAAATCTTGCCACCTTAAACAA
 CACATCAGATCCCATACAGGTGAAAAACCTTTTAAATGTTCTCAGTGTGGAAGAGGCTTT
 GTTTCTGCAGGCGTGCTCAAAGCACACATCAGAACACACACAGGACTGAAATCTTTCAAG
 TGTCTGATATGTAATGGGGCTTTCACTACTGGTGGCAGCTTACGGCGACACATGGGTATC
 CACAACGACCTTCGTCCCTATATGTGTCCCTATTGCCAAAAACATTTAAGACTTCACTA
 AATTGCAAAAAGCATGAAAAACCAAGATATGAGCTTGCCAGCAGCTCCAACAGCAT
 CAGCAGGCAGCCTCGATAGATGACAGCACTGTAGACCAGCAGAGCATGCAGGCCTCCACT
 CAAATGCAGGTGGAGATCGAGAGCGACGAGCTGCCGACAGCGCAGAGGTGGTGCAGCG
 AACCCCGAGGCCATGCTGGACCTGGAGCCTCAGCATGTGGTGGGCACGGAGGAAGCAGGG
 CTGGGCCAGCAGTTGGCAGATCAGCCCCTGGAAGCAGATGAAGATGGGTTTGTGGCTCCA
 CAGGACCCTCTGCGAGGGCAGTAGACCAGTTTGAAGAGCAGAGCCCTGCGCAACAGTCC
 TTGCAACCAGCAGGGCTACCCCAAGGTTTTACAGTGACTGATACGTACCATCAGCAGCCT
 CAGTTTCCACCTGTCCAACAGCTACAGGATTCCAGCACACTTGAGTCTCAGGCCCTCTCC
 ACAAGCTTCCACCAGCAGAGCTTGCTGCAGGCTCCCAGCTCTGATGGGATGAATGTAACA
 ACTCGCTTGATTTCAGGAGTCATCCCAAGAGGAACTGGACCTGCAGGCACAAGGTTCCAG
 TTTCTGGAGGACAACGAGGACCAGAGCAGGCGCTCTTACAGGTGTGACTATTGCAACAAA
 GGCTTTAAGAAGTCCAGCCACCTGAAGCAGCATGTGCGGTGCGACACCGGGGAAAAGCCC
 TACAAGTGCAAGCTCTGTGGACGCGGCTTTGTTTCTCTGGGGTCTCAAGTCCCACGAG
 AAGACACACACAGGAGTGAAGGCGTTAGCTGCAGTGTGTGCAATGCTTCCTTCACCACC
 AATGGCAGCCTCACCCGGCACATGGCCACACATATGAGCATGAAGCCTTATAAGTGTCCG
 TTTTGTGAGGAGGGTTTCCGAACTACAGTGCAATTGTAAAAAGCATGAAGAGACACCAA
 ACAGTCCCCTCTGCTGTGTGAGCCACTGGAGAGACAGAAGGAGGAGACATTTGTATGGAG
 GAAGAGGAAGAACATTTCTGACAGAAATGCATCACGGAAGTCTCGTCTGAGGTCATCACT
 TTCACGGAGGAGGAGACAGCCCAGTTAGCCAAGATCCGGCCGAGGAGAGCGCCACGGTG
 TCAGAGAAGGTCTGGTGCAGTCCGCGGCAGAAAAGGACCGCATCAGTGAGCTGAGGGAC
 AAGCAGGCGGAGCTGCAGGACGAGCCCAAGCACGCCAACTGCTGCACATACTGCCCCAAG
 AGCTTCAAGAAACCTAGCGACCTGGTGAGGCATGTTTCAATCCATACTGGAGAAAAGCCA
 TACAAATGTGATGAATGTGGAAAGAGTTTTACTGTGAAATCCACTCTCGATTGTGATGTG
 AAGACTCACACAGGTGAGAAGCTCTTCAGCTGTACGTCTGCAGCAACGCCTTCTCCACG
 AAGGGAAGTCTGAAGGTCCACATGCGCCTGCACACGGGAGCCAAGCCCTTCAAATGCCCG
 CATTGCGAGCTGCGTTTTCCGTACCTCGGGTAGAAGAAAGACACACATGCAGTTTCATTAT
 AAACCAGACCCAAAGAAGGCCAGAAAGCCTATGACTCGAAGCTCATCGGAAGGACTGCAG
 CCTGTAAACCTCCTCAACTCCTCCTCTACTGACCCAAACGTGTTTATCATGAACAACTCT
 GTTCTAACAGGACAGTTTGTATCAGAATCTGCTGCAACCAGGACTGGTGGGCCAAGCTATT
 CTCCCTGCCTCTGTGTGAGCTGGGGGTGACCTGACCGTGTCTCTGACAGATGGGAGCCTG
 GCTACCCTAGAAGGCATCCAGTTACAGTTGGCTGCTAACTTGGTTGGACCAAATGTACAG
 ATTTCTGGAATCGATGCTGCCAGCATTAATAACATTACGTTGAGATTGATCCAAGCATT
 CTGCAGCAGACGCTACAGCAGGGCAACCTATTGGCTCAGCAGCTCACGGGGGAGCCTGGC
 CTGGCCCCACAGAACAGCTCTCTCCAGACATCGGACAGCACGGTCCCTGCCAGTGTGTGTC
 ATCCAGCCCCTCTCAGGCCTGTCTTACAGCCACAGTGACCTCTGCGAACCTGACCATA
 GGCCCGCTGTCTGAGCAGGATTTCAGTGCTGACCACTAACAGCAGTGGGACCCAAGACCTC
 ACTCAAGTGATGACTTCGCAAGGTCTAGTGTCCCCCTCCGGCGGTCCCCACGAGATCACC
 CTGACCATTAACTCCAGCCTGAGCCAGGTCTGGCACAGGCCGCTGGGCCCACTGCC
 ACGTCTTCTCGGGGTCTCCACAGGAAATTACCCTGACTATCTCCGAGGTTCCAGGTCTG
 TGAGCACAGTGTGGGACCCAGGAGTGTGGATCTGTGGAGGCATTGTATTTGGAGAACT
 CCAGCGACAAAACCTTAACACTACAAGCGGAAGCCTTCCTTCAACAACACCGATGTCTCCA

FIGURE 1 (CONT'D)

TCGGCCATCTCGACTCAGAACCTGGTCATGTCCTCGTCGGGCGTGGGAGGTGACGCTAGT
 GTCACGCTGACGCTGGCCGATACTCAGGGTATGCTATCTGGAGGCCTGGACACTGTCACA
 CTAACATCACCTCTCAGGGTCAGCAGTTCCCAGCGCTCCTCACGGATCCCTCTCTCTCG
 GGCCAGGGTGGAGCAGGCTCGCCGCAAGTCATACTAGTGAGCCACACGCCACAGTCAGCG
 TCTGCTGCTTGTGAAGAAATAGCCTACCAGGTAGCTGGCGTCTCTGGGAACCTGGCCCCG
 GGCAACCAGCCAGAGAAGGAGGGCCGGGCGCACCAAGTGCCTGGAGTGTGACCGCGCCTTC
 TCATCGGCGGCGGTGCTCATGCACCAAGCAAGGAGGTGCATGGCCGGGAGCGCATCCAC
 GGCTGCCCCGTGTGCAGGAAGGCCTTCAAGCGCGCCACGCACCTCAAGGAGCACATGCAG
 ACACAC CAGGCCGGCCCTCTTTGAGCTCCAGAAAGCAAGAGTGTAAATGTGACACT
 TGTGAGAAGGCATTTGCCAAACCAAGCCAGCTGGAGCGCCACAGCCGCATACATACAGGG
 GAGCGGCCGTTCCATTGCACGCTTTGTGAGAAAGCCTTCAACCAGAAGAGTGCCTGCAG
 GTGCACATGAAGAAGCACACGGGGGAGCGGCCCTACAAGTGTGCCTACTGCGTCATGGGC
 TTCACGCAGAAGAGCAACATGAAGCTGCACATGAAGCGGGCGCACAGCTATGCTGGAGCT
 CTGCAGGAGTCTGCAGGTCAACCGGAGCAGGACGGGGAGGAGCTGAGCCGGACCTCCAC
 CTGGAGGAGGTGGTGCAGGAGGCCGCCGGCGAGTGGCAGGCCCTCAACCGTCTTCTGA
 TGCAGTTTGAAGTACACCTTTAAGAATGTTTCTGAAGTTACGTTTTGTGAAGAGCAAAG
 CACTTGAATCTCCGTTTTAAAGCTTCAAGTGTAAATGCTACAATAGTTTTTTATCT
 ATAAATTATCTAAAGAATCATTGTCTTTCAGAGACTCATAGGAAAAAAAACTAGGAAA
 AGTGTACCCGATTGTTCTCTTTGTCTACAAATCACTGAAGTCACTGACTACTGTAGGC
 AGTTTCTCTCAGTCTCTCCGTGGCTAGTGTGTCTAGTTCACGAAGCAATTAAGTGGG
 TCTTACTATCATTGTAGTGTGATTTCTTTGTATTAGCAAAGACAAAAAGCTAACATTGA
 AAAAGTATGTGAGATTTTCTTCATGTTTCTGTTTATAAGAAGCATAGCTTACAAAGCAA
 GCGTAAGATTGAGGCATGAAGTTTCAAGAAAAAAGTGTACAAACACACAGGGAAGTTTTT
 TCCACTCTTTTCTCTGTGCATTTTGAATAATTAGTCAAAATGGACTCTTTTCAGTCTACCA
 TAAGTTAATATAACTGATACCTTGAGAGATGGCTGGACCAATTCTCTCATGACAAATGT
 TTAATCATTAGTTACAAGAATGCAGTATCTGGGGCGTCAACATGGGGACTCGAGTAAACC
 TGACCCACCAATAAGGATTGAGCTGTCCACACGGGCTGGCGACACACTTACCGCATCAAT
 CTGTGTTTCAAGGTCCAGGGTTACATAATTGCAGAAGCACAGCCATACATCGCAGGTAGGA
 AACCACAGAACCCTGTCAGAGGCAAGCAACGGTGGCCCTGTCCACCCAGCAAATAAG
 AAGCATATCTGTAGCTTAAGGCCACGAATCCGTAAAAACCCCATGACTTTCTCTTCGTGC
 ATAAACAGATGTATTTTGTATTTCAGGGAATTCTTTAGTATCGTCAATGGTGCCACATAA
 AACATGTCCCAAACCAATCCACCCGTGTGGGCGAGTGCCTGCACGCCATTCTTACA
 GCATTCCAAAGATGGAAGGTTCTTTACTTCATGTTAATTTTCTTTGAAATTATTTATA
 TGTTCATATATAAATACATATGTACATAGATATATGGGCCTCTGTGTGGCTGAACAGTA
 TATTTTGTAAATATAAGTACTAGTCCTAATTGCAGAAAGAGCGTCAGTTTCACTCCCA
 CGAGCACTTCAGATCAGTATTGTATTCAATTTTATTATATAAATGGATATCTTTTTCATTGT
 CATATAAAGCTGGGTTTTATTTTTTTTCTGAAAAATAATTGCCTTTATTTTCTCTCGT
 TGCCCTCCTTGGTTTTCAGAAGAGAGTAGTTTTATTATAAATATTGTATGGACTTTGTATAT
 TAAGAGAGGAGCTCATTTTCAGATTCTTAAAGAAATAGACATTTTACTGTTATTTTGAAG
 GGCATCTTTTGATTTTTTTTGTGTTGTTGTTGTTCACTTTTGGCATATGTATATAAGTAATAT
 TGACGGTGATATGAAAACCTTTTGTATGTGAAGATATTTAAGTCAGAAAATTGTTAAATA
 ATATTACTTCTTTTCCAACTGCTTTGTGTATTGTATATTTTTTTAAGAAAAAGAAAAGC
 CTTATTTGACTTATGCTTGTGATACTGGACTTCTTACCAATCCGGAGGTTTCTTTCCTTG
 AATGTCAAGTGTGTAACCTGGCTGTAGCCGCATATGCAGAATAACTGTAATTGTGCTAGA
 GTTTTAAAGGTTCTGCTTTTAAATGCACCTTTTATTTTATAATTTTGTATTGAAATATTTT
 AGAAATGTTGATTAAATTTTGGTGAAAAATATCCCAAAGTGGAATATTGGAATTTTA
 AACTTTTGTCTTGTCTGGGTTATTTATTTTGTATTTAGCATTAAATGTCATCTCAGGACA
 TCTCTAAAAGGGGTTGTTAATTCCTAATTGTATAGAAAGCTAGTTTGGTGAATTGTATT
 GGTAAATTGACTGTTTAAAGGCCTTAAAGGTGAATCTAGAGCCTACTTTTATTTTGGTTA
 AAGAAAAAGAAAATATCAATAATTCAATTTTGTGTCTTTTCTCAATTTATTAGCAAAACAC
 AAGACATTTTATGTATTATTTGATTTACTTCTAATTATAAAGCTGCTTTTTTGCAGA
 ACATTCCTTGAAAATATAAGGTTTTGAAAAGACATAATTTTACTTGAATCTTTGTGGGGT
 ACAGGTTGATCTTTATATTTTACTGGTTGTTTTAAAAATTCTAGAAAAGAGATTTCTAGG
 CCTCATGTATAACCAGGGTTTTGAGGATAAAGAACTGTATTTTAGAACTATCTCATCAT

FIGURE 1 (CONT'D)

AGCATATCTGCTTTGGAATAACTATAAATAAAAGATGAAGTTAGG

Gene 20. >ENST00000327986 cDNA sequence

CACCACCATCATCTCCAGGTGCATGGGAGAACCCTCTCCAAGAGAACCCTACCCAGGAG
AACCCCCCAGGAGAAGCCCCCTCCAGGAGAAGCCCCCAGGAGAAGCCCCCTCCAGGAG
AACCCCCCAGGAGAAGCCCCCTCCAGGAGAACCCTCCGGGAGAAGCCCCCTCCAGGAG
AACCCCCCAGGAGAAGCCCCCTCCAGGAGAACCCTCCGGGAGAAGCCCCCTCCAGGAG
AACCCCCCAGGAGAAGCCCCCTCCAGGAGAACCCTCCGGGAGAAGCCCCCTCCAGGAG
AACCCCCCTGGGAGACTCCCCCAGGAGACCCCCCGGGAGACTCCCCCAGGAGA
CCCCCCTCCAGGAGAACCCTCCAGGAGACTCCCCCAGGAGAACCCTCCAGGAGAC
TCCCCCAGGAGATACCTCCAGGAGACTCCCCCAGGAGAACCCTCCAGGAGACTC
TCCCCAGGAGACTCCCTCCTCCAGAACCCTCCAGGAGACTCCCCCAGGAGACTCCCC
CTCCAGGAGACTCCCCCAGGAGAACCCTCCAGGAGACTCCCCCTCCAGGAGCCCCC
CTCCAGGAGACTCCCCCAGGAGACTCCCCCAGGAGAACCCTCAACATCCACAA
GCCCC

Gene 21. >ENST00000318747 cDNA sequence

AGACCATCCAAGAAGACAGTGCAGCCACCTCCGAGAGCCTGGATGTGATGGCGTCACAGA
AGAGACCCTCCAGAGGCACGGATCCAAGTACCTGGCCACAGCAAGTACCATGGACCATG
CCAGGCATGGCTTCTCCAAGGCACAGAGACACGGGCATCCTTGACTCCATCGGGCGCT
TCTTTGGCGGTGACAGGGGTGCGCCCAAGCGGGGCTCTGGCAAGGACTCACACCACCCGG
CAAGAACTGCTCACTACGGCTCCCTGCCCCAGAAGTCACACGGCCGGACCCAAGATGAAA
ACCCCGTAGTCCACTTCTTCAAGAACATTGTGACGCCTCGCACACCACCCCGTCGCAGG
GAAAGGGGAGAGGACTGTCCCTGAGCAGATTTAGCTGGGGGGCCGAAGGCCAGAGACCAG
GATTTGGCTACGGAGGCAGAGCGTCCGACTATAAATCGGCTCACAAGGGATTCAAGGGAG
TCGATGCCCAGGGCAGCTTTTCAAAATTTTAAAGCTGGGAGGAAGAGATAGTCGCTCTG
GATCACCCATGGCTAGACGCTGAAAACCCACCTGGTTCCGGAATCCTGTCCTCAGCTTCT
TAATATAACTGCCTTAAAACTTTAATCCCACTTGCCCCTGTTACCTAATTAGAGCAGATG
ACCCCTCCCCTAATGCCTGCGGAGTTGTGCACGTAGTAGGGTCAGGCCACGGCAGCCTAC
CGGCAATTTCCGGCCAACAGTTAAATGAGAACATGAAAACAGAAAACGGTTAAAACTGTC
CCTTTCTGTGTGAAGATCACGTTTCTTCCCCGCAATGTGCCCCCAGACGCACGTGGGTG
TTCAGGGGGCCAGGTGCACAGACGTCCCTCCACGTTTCAACCTTCCACCTTGGACTTTCT
TTTCGCCGTGGCTGCGGCACCCTTTCGCTTTTGTCTGGTCACTGCCATGGAGGCACACAGC
TGCAGAGACAGAGAGGACGTGGGCGGCAGAGAGGACTGTTGACATCCAAGCTTCTTTTGT
TTTTTTTTCTGTCTTCTCTCACCTCCTAAAGTAGACTTCATTTTTCTTAAACAGGATTA
GACAGTCAAGGAGTGGCTTACTACATGTGGGAGCTTTTGGTATGTGACATGCGGGCTGGG
CAGCTGTTAGAGTCCAACGTGGGGCAGCACAGAGAGGGGGCCACCTCCCCAGGCCGTGGC
TGCCCAACACCCCAATTAGCTGAATTTCGCGTGTGGCAGAGGGAGGAAAAGGAGGCAAAC
GTGGGCTGGGCAATGGCCTCACATAGGAAACAGGGTCTTCTGGAGATTTGGTGATGGAG
ATGTCAAGCAGGTGGCCTCTGGACGTCAACGTTGCCCTGCATGGTGGCCCCAGAGCAGCC
TCTATGAACAACCTCGTTTCCAAACCACAGCCACAGCCGGAGAGTCCAGGAAGACTTGC
GCACTCAGAGCAGAAGGGTAGGAGTCTCTAGACAGCCTCGCAGCCGCGCCAGTCGCCCCA
TAGACACTGGCTGTGACCGGGCGTGTGGCAGCGGCAGTGACAGTGGCCAGCACTAACCC
CTCCCTGAGAAGATAACCGGCTCATTCACTTCTCCAGAAGACGCGTGGTAGCGAGTAG
GCACAGGCGTGCACCTGCTCCCGAATTACTCACCGAGACACACGGGCTGAGCAGACGGCC
CCGTGGATGGAGACAAAGAGCTCTTCTGACCATATCCTTCTTAAACACCCGCTGGCATCTC
CTTTTCGCGCTCCCTCCCTAACCTACTGACCCACCTTTTGATTTTAGCGCACCTGTGATT
GATAGGCCTTCCAAAGAGTCCCACGCTGGCATCACCTCCCCGAGGACGGAGATGAGGAG
TAGTCAGCGTGATGCCAAAACGCGTCTTCTTAATCCAATTCTAATTCTGAATGTTTCGTG
TGGGCTTAATACCATGTCTATTAATATATAGCCTCGATGATGAGAGAGTTACAAAGAACA
AAACTCCAGACACAAACCTCCAAATTTTTAGCAGAGAAGCACTCTGCGTCTGCTGAGCTGAG
GTCGGCTCTGCGATCCATACGTGGCCGCACCCACACAGCACGTGCTGTGACGATGGCTGA
ACGGAAAGTGTAACCTGTTCTGAATATTGAAATAAAACAATAAACTTTT

Gene 22. >ENST00000281193 cDNA sequence

CCTGGATGTGATGGCGTCACAGAAGAGACCCTCCAGAGGCACGGATCCAAGTACCTGGC
CACAGCAAGTACCATGGACCATGCCAGGCATGGCTTCTCCCAAGGCACAGAGACACGGG

FIGURE 1 (CONT'D)

CATCCTTGACTCCATCGGGCGCTTCTTTGGCGGTGACAGGGGTGCGCCCAAGCGGGGCTC
TGGCAAGGTACCCTGGCTAAAGCCGGGCCGGAGCCCTCTGCCCTCTCATGCCCGCAGCCA
GCCTGGGCTGTGCAACATGTACAAGGACTCACACCACCCGGAAGAACTGCTCACTACGG
CTCCCTGCCCCAGAAGTACACGGCCGGACCCAAGATGAAAACCCGTAAGTCACTTCTT
CAAGAACATTGTGACGCCTCGCACACCACCCCGTGCAGGGAAAGGGGGCCGAAGGCCA
GAGACCAGGATTTGGCTACGGAGGCAGAGCGTCCGACTATAAATCGGCTCACAAGGGATT
CAAGGGAGTCGATGCCAGGGGCACGCTTTCCAAAATTTTAAAGCTGGGAGGAAGAGATAG
TCGCTCTGGATACCCATGGCTAGACGCTGAAAACCCACCTGGTTCGGAATCCTGTCCT
CAGCTTCTTAATATAACTGCCTTAAACTTTAATCCCACTTGCCCTGTTACCTAATTAG
AGCAGATGACCCCTCCCCTAATGCCTGCGGAGTTGTGCACGTAGTAGGGTCAGGCCACGG
CAGCCTACCGCAATTTCCGGCCAACAGTTAAATGAGAACATGAAAACAGAAAACGGTTA
AAACTGTCCCTTTCTGTGTGAAGATCACGTTCTTCCCCGCAATGTGCCCCCAGACGCA
CGTGGGTCTTCAGGGGGCCAGGTGCACAGACGTCCCTCCACGTTACCCCTCCACCCTTG
GACTTTCTTTTTCGCGGTGGCTGCGGCACCCTTGCGCTTTTGTGCTCACTGCCATGGAGG
CACACAGCTGCAGAGACAGAGAGGACGTGGGCGGCAGAGAGGACTGTTGACATCCAAGCT
TCCTTTGTTTTTTTTTCTGTCTCTCTCACCTCCTAAAGTAGACTTCATTTTTCTAA
CAGGATTAGACAGTCAAGGAGTGGCTTACTACATGTGGGAGCTTTTGGTATGTGACATGC
GGGCTGGGCAGCTGTTAGAGTCAACGTGGGGCAGCACAGAGAGGGGGCCACCTCCCCAG
GCCGTGGCTGCCACACACCCCAATTAGCTG

Gene 23. >ENST00000309607 cDNA sequence

ATGACTCTTAACGAGCATGCTGCCTTCAAGCATCTGTTTAAACAAAGCACATCTTGACCCG
CCCTTAATCCATTTAACCTGAGTGGACACAGCACATGTTTCAGAGAGCACAGGGTTGGG
GGTAAGGTACCGATCAACAGGATCCAAGGCAGAAGAATTTTTCTTAGTACAGAACAAA
ATGAAAAGTCTCCCATGTCTACCTCTTTCTACACAGACACGGCAACCATCCGATTTCTCA
ATCTTTTCCCCACCTTTCCCCCTTTCTATTCCACAAAACCGCCATTGTATCATGCCCC
GTTCTCAATGAGCTGTTGGGTACACCTCCCAGACGGGGTGGTGGCCGGGCAGAGGGGCTC
CTCACTTCCCAGTAG

Gene 24. >ENST00000253506 cDNA sequence

GAGCCGCCGGGCCGGCGGGGAGGCGGGGAGGTGTTTTCCAGCTTTAAAAGGCAGGAGG
CAGAGCGCGGCCCTGCGTCAGAGCGAGACTCAGAGGCTCCGAACTCGCCGGCGGAGTCGC
CGCGCCAGATCCCAGCAGCAGGGCGCGGGCACCGGGGCGGGGCAGGGCTCGGAGCCACC
GCGCAGGTCTTAGGGCCGCGGCCGGGCCCGCCACGCGCGCACACGCCCCTCGATGACTT
TCCTCCGGGGCGCGCGGCGCTGAGCCCCGGGGCGAGGGCTGTCTTCCCGGAGACCCGACCC
CGGCAGCGCGGGGCGGCCGCTTCTCCTGTGCCTCCGCCCCGCGCTCCTCACTCCCCGCGCC
GCCGCGCGGATGCCAAGCACCAGCTTTCCAGTCCCTTCCAAGTTTCACTTGGCCCTGCG
GCTGCGGTCTTCGGGAGAGGAGAACTTTGGGGCCCCGCGCCGCGCGCCGGCGGCACCATG
AAGTCAGCGGAGGAAGAACAATATGGCTATGCATCCTCCAACGTAGCCCCGCCCTGCCG
CTCCCCACGGCGCACTCCACCCTGCCGGCCCCGTGCCACAACCTTCAGACCTCCACACCG
GGCATCATCCCGCGCGGCGGATCACCCCTCGGGGTACGGAGCAGCTTTGGACGGTGGGCCC
GCGGGCTACTTCTCTCTCCGGCCACACCAGGCCTGATGGGGCCCCCTGCCCTGGAGAGT
CCTCGCATCGAGATAACCTCGTGCTTGGGCCTGTACCACAACAATAACAGTTTTTCCAC
GATGTGGAGGTGGAAGACGTCTCTCCCTAGCTCCAAACGGTCCCCCTCCACGGCCACGCTG
AGTCTGCCAGCCTGGAGGCCTACAGAGACCCCTCGTGCTGAGCCCGGCCAGCAGCCTG
TCCTCCCGGAGCTGCAACTCAGAGGCCTCCTCCTACGAGTCCAATACTCGTACCCGTAC
GCGTCCCCCAGACGTGCGCATGGCAGTCTCCCTGCGTGTCTCCCAAGACCACGGACCCC
GAGGAGGGCTTTCCCCGCGGGCTGGGGGCTGCACACTGCTGGGTTCCTCCGCGGCACTCC
CCCTCCACCTCGCCCCGCGCCAGCGTCACTGAGGAGAGCTGGCTGGGTGCCCGCTCCTCC
AGACCCGCGTCCCCTTGCAACAAGAGGAAGTACAGCCTCAACGGCCGGCAGCCGCCCTAC
TCACCCACCACTCGCCACGCGCTCCCCGACGGCTCCCCGCGGGTCAGCGTGACCGAC
GACTCGTGGTTGGGCAACACCACCCAGTACACCAGCTCGGCCATCGTGGCCGCCATCAAC
GCGCTGACCAACGACAGCAGCCTGGACCTGGGAGATGGCGTCCCTGTCAAGTCCCGCAAG
ACCACCTGGAGCAGCCGCCCTCAGTGGCGCTCAAGGTGGAGCCCGTCGGGGAGGACCTG
GGCAGCCCCCGCCCCCGGCGACTTCGCGCCCCGAAGACTACTCCTCTTTCCAGCACATC
AGGAAGGGCGGCTTCTGCGACCACTACCTGGCGGTGCCGAGCACCCCTACAGTGGGCG

FIGURE 1 (CONT'D)

AAGCCCAAGCCCCCTGTCCCTACGTCTACATGAGCCCCGACCTGCCCCGCCCTGGACTGG
 CAGCTGCCGTCCCACTCAGGCCCGTATGAGCTTCGGATTGAGGTGCAGCCCAAGTCCAC
 CACCGAGCCCACTACGAGACGGAGGGCAGCCGGGGGGCCGTGAAGGCGTCGGCCGGAGGA
 CCCCCATCGTGCAGCTGCATGGCTACTTGGAGAATGAGCCGCTGATGCTGCAGCTTTTC
 ATTGGGACGGCGGACGACCGCTGCTGCGCCCGCACGCCTTCTACCAGGTGCACCGCATC
 ACAGGGAAGACCGTGTCCACCACCAGCCACGAGGCCATCCTCTCCAACCCAAAGTCTTG
 GAGATCCCACTCCTGCCGGAGAACAGCATGCGAGCCGTCATTGACTGTGCCGAATCCTG
 AAACCTCAGAACTCCGACATTGAACTTCGGAAGGAGAGACGGACATCGGGAGGAAGAAC
 ACACGGGTACGGCTGGTGTTCGCGCTTCACGTCCCGCAACCAGCGGCCGCACGCTGTCC
 CTGCAGGTGGCCTCCAACCCCATCGAATGCTCCAGCGCTCAGCTCAGGAGCTGCCTCTG
 GTGGAGAAGCAGAGCACGGACAGCTATCGGTCTGGGCGGGAAGAAGATGGTCTGTCT
 GGCCCACACTTCTGCAGGACTCCAAGGTCAATTTCTGTGGAGAAAGCCCCAGATGGCCAC
 CATGTCTGGGAGATGGAAGCGAAAACGACCGGGACCTGTGCAAGCCGAATTCTCTGGTG
 GTTGAGATCCCGCCATTTCTGGAATCAGAGGATAACCAGCCCCGTTACGTCAATTTCTAC
 GTCTGCAACGGGAAGAGAAAGCGAAGCCAGTACCAGCGTTTCACTACCTTCCCGCCAAC
 GTTCCAATTATAAAAAAGAAACCACTGATGATTATGAGCTGCTCCAACCTGTGGACCG
 GTGAGCCAGGGGTAAAGTCTCTCCCAAGACCATACTACAGCCAGCAGCTCGCGATGCCA
 CCGGACCCAGCTCCTGCTCGTGGCCGGCTTCCCGCCCTGTCCGCAGAGAAGCACCTG
 ATGCAGCGGGCCCTGGCGTGAGCCCCAAGCTCCACGACCTTTCTCCCGCTGCCTACACC
 AAGGGCGTTGCCAGCCCCGGGCCACTGTCACTCGGACTCCCGCAGCCGGCCGGAGAGGCC
 CCGCGCTCCAGGACGTGCCAGGCCAGTGGCCACGACCCCGGCTCGCCCGGGCAGCCA
 CCCCCGGCCCTGCTGCCACAGCAGTAAATGAAATAATACGAAATGACCTCTCAGCACGA
 GCACCCACTCCTAGTTGCGACATTGGAGCACTCAGTTCAGCAGGGGTATGCTGACTTCAG
 CAGACAAAGACTTTTGAATAAATAAAGTGAACCTCACACCTGGTACCACTCAGAACCTCCA
 ACTGACTGAATGCCAGGAGCTGAACATTAATATGTGCAAGATTGGCTCTCCAACAAGAA
 GGAAAGCAGGGAGGAAGGGAGACCACTGTGTCACTGGAGGAGAAGTCATCTCATGACAA
 CAGAAGGGAGGTGGCCGGGCTGAGCACGGGAGACCCACCGTGAGGGGCTTTTCATGGGA
 ACGGCCACACGCAGTTTGAACCCACGCCCAGCCCTTCTGGCAACCCCTGGGGTTCAATAC
 TGGAAAGTGCTTATTTAAACAGACCATCAGGGCATCATAGAATTGAGCATTGAATTTGCT
 ACTGTAGGAGTATTTTTAGGAGCAGAACTGCAACACATTTCAATTGTGAGGTTTTACCC
 TCTGTATGAATGAAGAGAACGCTGGAAGGCTGCGAGAGGACTCTAGTATGAGTCTCCAAC
 ATTTGGAACGTTTCTGGGCTGTACGTACACTCCTGCTGCCTTACACAGTGCATTTTAG
 AATCTTCCAGTCTGTCTCAGCTCTTTTGTAAATGCTTCCCTTGTCTGCGCGGTTGA
 AACCGTAGGCTTGTTCATAGTCGCATGCTCGCATCTTTGTTTTTAATCTGGCTTCGAACA
 TAGCACAAGTAACCTGAATAGCACATCAATAGGTTACTGGACAAAAGCAGAAAAACCTGT
 TACAGGATAGCTGCATTTGCATGTGTGTACATATCTAGGCATCTATTTATGTATAAATA
 ATAACAGAGCCGACGTGTCTCGCCAGGAGGGCTTCCCTGTGAGCAATAACCGGCATCC
 GTTTTGGAACTGCGTCTGGGGCTCCAGTCGCTGCTCTTGCTGGCGTCCATCGCCGCTC
 GGACGGCCGTGCATTTTCTCGTCTCACGCAGTTCGAGGAGGACCTAGAAAGCCAGGAGC
 TGTGATTGACAGTAGCTGTAGGTTACCAGACGGCAACATTAGAAAGTGATTGTAAATAAC
 ATGCAACCTAAGTGTAATATATTTGTTCACTTATAAGATGATTGTTTCAAGAAGCCTTA
 CCACTCTCTGCTTCATCTAAGAAAACCAATACCAAAAACGCCACTTTAATGCTCAGCCCT
 GCGTTGTGTGTTTTAGATGAGTTACTGTAAACAGGTAGGTTTGTGTAGGCCTTGCTGGG
 CACTCTGTACAATTAGTTGCTTATTACGTATGATTACTCACAGCGATCTATTGTTCCATA
 TAACCAAAAAGCATGGTTTATTCAATTGAAACACGGTTGACCTGAACTCGTGCCTTAGGAA
 TTAATGCCCCCTTATGGAACCTGCCTGAATTGCACCTGCGGGTGAGGCTCCGGCTGTGA
 AGTCACTGAACAGAACGTGCTGATGGAGAAAGGGCTCCCGCAGAAGGAACGGCCTGTAC
 CGTGCGCTCCGGCACAATCGCGTCTCTTGTGTCTCACTCACGGAAGAAACAACCTGAAG
 GCCATCCCGTCCGGTCTGCACGTAACCGTGAAGACGTGTGGCCGCGTCCACCTGCGGCTG
 GGTACCCTGCACCCGGCACTGTAGGAGTCAGTGCAGCCTTTCTCAGGGGACTGTCAATTG
 AAAAGGAAACGTTTGTGTCTGTGTGAGCTGTCTTTGTAGTTAGGAAATAGATCCAATAA
 AGCCGTATTTTTTGTCTGG

Gene 25. >ENST00000329101 cDNA sequence

GCCGGGAGAACCGAACCCCTGGCGGCCGCGACCCCGGCTCCCGCCCCGGCCCCGGCCCCGA

FIGURE 1 (CONT'D)

CCGCCATGACGGGGCTGGAGGACCAGGAGTTCGACTTCGAGTTCCTCTTCGAGTTTAAAC
 CAGCGCAGCAGGGGCGCCGCGCGGCGCCCGCAGAACACTATGGCTATGCATCCTCCAAC
 GTCAGCCCCGCGCTGCGCTCCCCACGGCGCACTCCACCCTGCCGCCCCGTGCCACAAC
 CTTGAGACCTCCACACGGGCATCATCCGCGCGGCGGATCACCCCTCGGGGTACGGAGCA
 GCTTTGGACGGTGGGCCCCGCGGCTACTTCTCTCTCTCGGCCACACCAGGCCTGATGGG
 GCCCCCTGCCCTGGAGAGTCTCGCATCGAGATAACCTCGTGCTTGGGCTGTACCAAC
 AATAACCAGTTTTTCCACGATGTGGAGGTGGAAGACGTCTCTCCCTAGCTCCAAACGGTCC
 CCCTCCACGGCCACGTGAGTCTGCCAGCCTGGAGGCCTACAGAGACCCCTCGTGCTG
 AGCCCGGCCAGCAGCCTGTCTCTCCGGAGCTGCAACTCAGAGGCCTCTCTACGAGTCC
 AACTACTCGTACCCGTACGCGTCCCCCAGACGTGCCATGGCAGTCTCCCTGCGTGTCT
 CCAAGACCACGGACCCCGAGGAGGGCTTTCCCGCGGGCTGGGGGCTGCACACTGCTG
 GGTTCCCCGCGGCACTCCCCCTCCACCTCGCCCGCGCCAGCGTCACTGAGGAGAGCTGG
 CTGGGTGCCGCTCTCTCAGACCCGCGTCCCCTTGCAACAAGAGGAAGTACAGCCTCAAC
 GGCCGGCAGCCGCCCTACTACCCCACTCGCCACGCGTCCCCGACGGCTCCCCG
 CGGGTCAGCGTGACCGACGACTCGTGTTGGGCAACACCAACCAGTACACCAGCTCGGCC
 ATCGTGCCGCCATCAACGCGCTGACCACCGACAGCAGCCTGGACCTGGGAGATGGCGTC
 CCTGTCAAGTCCCGCAAGACCACCTGGAGCAGCCGCCCTCAGTGGCGCTCAAGGTGGAG
 CCCGTGCGGGAGGACCTGGGCAGCCCCCGCCCCCGCGGACTTCGCGCCGAAGACTAC
 TCCTCTTTCCAGCATCAGGAAGGGCGGCTTCTGCGACCAGTACCTGGCGGTGCCGAG
 CACCCCTACAGTGGGCGAAGCCCAAGCCCCCTGTCCCTACGTCTTACATGAGCCCGACC
 CTGCCCCCTGGACTGGCAGCTGCCGTCCCACTCAGGCCCCGTATGAGCTTCGGATTGAG
 GTGCAGCCCAAGTCCCAACCGAGCCCACTACGAGACGGAGGGCAGCCGGGGGGCCGTG
 AAGGCGTCGGCCGGAGGACACCCCATCGTGAGCTGCATGGCTACTTGGAGAATGAGCCG
 CTGATGCTGCAGCTTTTCAATTGGGACGGCGGACGACCGCTGCTGCGCCCGCAGCCTTC
 TACCAGGTGCACCGCATCAGGGAAGACCGTGTCCACCACCAGCCACGAGGCCATCCTC
 TCCAACACCAAAGTCTGGAGATCCCCTCCTGCCGGAAGACAGCATGCGAGCCGTCAAT
 GACTGTGCCGAATCCTGAAACTCAGAACTCCGACATTGAACTTCGAAAGGAGAGACG
 GACATCGGGAGGAAGAACAACCGGTACGGCTGGTGTTCGCGTTTACGTCCCGCAACCC
 AGCGGCCGCAGCTGTCCCTGCAGGTGGCCTCAACCCCATCGAATGCTCCAGCGCTCA
 GCTCAGGAGCTGCCTCTGGTGGAGAAGCAGAGCAGGACAGCTATCCGGTCGTGGGCGGG
 AAGAAGATGGTCTGTCTGGCCACAACCTTCTGCAGGACTCCAAGGTCAATTTTCGTGGAG
 AAAGCCCCAGATGGCCACCATGTCTGGGAGATGGAAGCGAAACTGACCGGGACCTGTGC
 AAGCCGAATTTCTCTGGTGGTTGAGATCCCGCCATTTTGGGAATCAGAGGATAACCAGCCCC
 GTTACAGTCAGTTTTCTACGTCTGCAACGGGAAGAGAAAGCGAAGCCAGTACCAGCGTTTC
 ACCTACCTTCCCGCCAACGTTTCCAATTATAAAAAAGAACCCACTGATGATTATGAGCCT
 GCTCCAACCTGTGGACCGGTGAGCCAGGGGTTAAGTCTCTCCCAAGACCATACTACAGC
 CAGCAGCTCGCGATGCCACCCGACCCAGCTCCTGCCTCGTGGCCGGCTTCCCGCCCTGT
 CCGCAGAGAAGCACCTGATGCCAGCGGCCCCCTGGCGTGAGCCCCAAGCTCCACGACCTT
 TCTCCCGCTGCCTACACCAAGGGCGTTGCCAGCCCGGGCCACTGTACCTCGGACTCCCG
 CAGCCGGCCGGAGAGGCCCCCGCCGTCCAGGACGTGCCAGGCCAGTGGCCACGACCCCC
 GGCTCGCCCGGGCAGCCACCCCGGCCCTGCTGCCACAGCAGGTGAGTGCCTTCAAGC
 AGTAGCTGCCCCCTGGTCTCGAACACTCGCTCTGCCCCAGCAGCCCTCTCCTCCACTC
 CCGCCTGCCACCCAAGAGCCGACCTGCCTGCAGCCCTGCAGCCAGCGTGCCTCGCCCGCC
 ACGGGCCGCCCCGAGCACCTGCCGTCCACGGTCCGAGGGACGAGTCTCCGACTGCCGGG
 CCACGGCTGCTGCCAGAGGTGCATGAGGACGGTAGTCTTAATTTGGCCCCCTATTCTGTGA
 ACGGTCAAGCGAGAGCCTGAAGAGTTGGACCAAGTTGTACCTGGATGACGTAAATGAAATA
 ATACGAAATGACCTCTCCAGCACGAGCACCCACTCCTAGTTGCCACATTGGAGCACTCAG
 TTCAGCAGGGGTATGCTGACTTCAGCAGACAAAGACTTTTGAATAAATAAACTGAACTCA
 CACCTGGTACCACTCAGAACCTCCAACCTGACTGAATGCCAGGAGCTGAACATTAATATGT
 GCAAAGATTGGCTCTCCAACAAGAAGGAAAGCAGGGAGGAAGGGAGACCACTGTGTACC
 TGGAGGAGAAGTCATCTCATGACAACAGAAGGGAGGTGGCCGGGCTGAGCACGGGAGACC
 CACCGTGCAGGGGCCTTTTATGGGAAACGCCCCACGCGAGTTTGACCCACGCCCAGCCC
 TTCTGGCACCCCTGGGGTTCAATACTGGAAGTGCCTTATTTAAACCAGACCATCAGGGCAT
 CATAGAATTGAGCATTGAATTTGCTACTGTAGGAGTATTTTAGGAGCAGAACTGCAAA

FIGURE 1 (CONT'D)

CACATTTTCATTGTGAGGTTTTACCTCTGTATGAATGAAGAGAACGCTGGAAGGCTGCGA
GAGGACTCTAGTATGAGTCTCCAACATTTGGAACGTTTCTGGGCTGTACGTACACTCC
TGCTGCCTTACACAGTGCATTTTAGAATCTTCCAGTCTGTCTCATCTCAGCTCTTTTGTAAC
ATGCTTCCCTTGTCTGCGCGGTTGAAACCGTAGGCTTGTTTATAGTGCATGCTCGCATC
TTTGTTTTTAATCTGGCTTGAACATAGCACAAGTAACTTGAATAGCACATCAATAGGTT
ACTGGACAAAAGCAGAAAAACCTGTTACAGGATAGCCTGCATTTGCATGTGTGTACATAT
CTAGGCATCTATTTATGTATAAATAATAACAGAGCCGACGTGTCCTCGCCAGGAGGGCT
TCCCTGTGAGCAATAACCGGCATCCGTTTTGGAACCTGCGTCTGGGGCTCCAGTCGCTGC
TCTTGCTGGCGTCCATCGCCGCTCGGACGGCCGTGCATTTTCTCGTCTCACGCAGTTCG
AGGAGGACCCTAGAAAGCCAGGAGCTGTGATTGACAGTAGCTGTAGGTTACCAGACGGCA
ACATTAGAAAGTGATTGTAAATAACATGCAACCTAAGTGTAATATATTTGTTTCAATTATA
AGATGATTGTTTACAGAAAGCCTTACCACTCTCTGCTTCATCTAAGAAAACCAATACAA
AAACGCCACTTTAATGCTCAGCCCTGCGTTGTGTGTTTTTCAAGATGAGTTACTGTTAACAG
GTAGGTTTGTGTAGGCTTGTGTTGCTGGGCACTCTGTACAATTAGTTGCTTATTACGTATGATT
ACTCACAGCGATCTATTGTTCCATATAACCAAAAAGCATGTTTTATTATTGAAACACGG
TTGACCTGAACTCGTGCCTTAGGAATTAATGCCCCCTTATGGAACCTGCCTGAATTGCAC
CTGCGGGTGGAGGCTCCGGCTGTGAAGTCACTGAACAGAACGTCGCTGATGGAGAAAGGG
CTCCCGCAGAAGGAACGGCCTGTACCGTGCCTCCGGCACAATCGCGTCTCTTGTGTCTC
ACTCACGGAAGAAACAACCTGAAGGCCATCCCGTCCGTCTGCACGTAACCGTGAAGACG
TGTGGCCGCGTCCACCTGCGGCTGGGTACCTGCACCCGGCACTGTAGGAGTCACGTGC
AGCCTTTCTCAGGGGACTGTCAATTGAAAAGGAAACGTTTGATGTCTGTGTGAGCTGTCTT
TGTTAGTTAGGAAATAGATCCAATAAAGCCGTATTTTTTTTGCTGG

Gene 26. >ENST00000314741 cDNA sequence

ATGAACCGAAGTTTTACAAGTCTCAGACCTTGCGATTCTACGATTGCAGCGCAGTGGAA
GTCAAGAGCAAGTTTGGGGCGGAATTCCGAAGTTTCTCTCTGGAACCGTCATAAGCCTGGG
AAGTTTGAAGATTTCTACAAGCTGGTTGTGCACACCCACCATATCTCCAACAGTGATGTA
ACTATTGGCTATGCAGATGTGCACGGAGACCTGCTGCCCATCAACAATGATGACAACTTC
TGCAAGGCGGTTTTCTAGTGCAAATCCCCTGCTCAGGGTCTTCATCCAGAAACGAGAGGAG
GCCGAGCGTGGCAGCCTCGGCGCGGGCTCGTGTGCAGGCGGAGGCGGGCGCTGGGCGCG
CTGCGTGATGAAGGACCCCGGCGGGCTGCACACCTGGACATCGGCCTCCCGCGCGACTTC
CGCCCCGTATCATCCATCATCGATGTGGACCTGGTCCCCGAGACGCACCGGCGAGTGCAG
CTGCACCGGCACGGCTGCGAGAAGCCGCTGGGCTTCTACATCCGCGATGGCGCCAGCGTG
CGCGTGACCCCGCACGGGCTGGAGAAGGTGCCCGGCATCTTCATCTCGCGCATGGTACCC
GGGGGCTGGCGGAGAGCACCGGGCTGTGCGTGTGAATGACGAGGTCTGGAGGTGAAC
GGCATTGAGGTGGCCGGAAGACGCTGGACCAGGTACGGACATGATGATCGCCAACAGC
CACAACCTCATCGTCAACCGTCAAGCCCGCCAACAGCGCAACAACGTGGTGCGCGGCGGC
CGCGCGTTGGGCAGCTCGGGACCGCCCTCGGACGGCACCGCGGGCTTCGTGGGTCCCCC
GCCCCGCGCGTCTGCAAGACTTCCACCCCGACGAGGCGGAGAGCGATGAGGACAACGAC
GTCGTCTCAGAGGCGACACTGGAGCCTGCACGTCCCCCAGACCCCGGGCGCGCCGCA
GGCAGCCTCTCCCGGTCAATGGCGCGGGCCTGGCGCAGCGGCTGCAGCGGGACCTGGCC
CTGGACGGCGGCCTCCAGCGGCTGCTCAGCTCCCTGCGGGCCGACCCCGTCAAGCCTG
GCGCTGCCGCCAGGCGGCGTGGAGGAGCACGGGCCCGCGGTACAGCTCTAG

Gene 27. >ENST00000306722 cDNA sequence

GCGCTCGGCGCAGCGAAGTAGCCTCCGGCGGTGGCAACTACGGCGGCGGCGCGGGGCGA
TGCTGTGGGTCTCGTTGGGCGCCGGTGTCTGGCCTCTTCTTAGATGAAAAGATTCTGA
AGAATAGAGATCTTGAACATAGCATGGTGCCAGACACATAACAGAACGAAGAACAACCTA
AATTCATCTCAAAATGATTATAAATCATCAAGAAGGAGTAGCCTGCCACCTGAACTACTC
ATAGGAAATGACATTAGAGGAAGACTTCAAAGAAACATTAAGAACTTGATCCCATTAC
CTGAGGCAACCGAAGAAGAGACCATCCATATTTCCAGGACGGAAACACACCCTTTCTT
GGCGTCTGCGTCCCCGATTCTGCTCCCTGGTTGCCGCGTCTTGGCTGGCGTCAGAA
AAATGGCTACAACTTTCTAGTAGGTGAGAAGATCTGGTTCCACAAGTTCAAATATGGCG
ATGCAGAAAGGAGATTCTACGAACAGATGAACGGCCTGTGGCCGGCGCCTCCCTCCAGG
AGGCCAGCATGATCCTCCATGATATTGCCAGAGCCAGAGAGAACATCCCGAAATCCCTGG
CCGGAAGCTTAGGCCAGGGGCGTCTAGCGGCCCGAGCGGAGACCAAGCGAGCTCGTCG

FIGURE 1 (CONT'D)

TCCGGATCGCCAGTCTGGAAGTGGACAACCAGAGAGACCTGCTGAACGTGCTGGAGAAGA
GCTTGCCCGGCCACTGGGCCACAGCCCCGAGACCCAGCACATGTCTCCATGCGCCAAG
TGGAGCCCCCGGCCAAGAAGCTAGCCACACCAGCAGAGGATGACGAGGACGATGACATTG
ACCTGTTTTGGCAGCGACAATGAGCAACACAGCTGCGGCATTACCAATGAGGAGCGGCTGC
AGCAGTACGCGGAGAAGAAGGCCAAGAAGCCCGCTGGTGGCCAAGTCTCCATCCTGC
TGGACTTCAAGCCTTGGGACGATGAGACGGACACGGCCACCTGGAGGCCTGTGTGCGCT
TCATCCAGCCGGACGGGCTGGTGCAGGGGGCCCTCAAGCTGGTGCCTGGGCTACGGTA
TCTGGAAGCTGCAGATTACAGCGTGTGGTGGAGGACAAGGTGGGGACAGACTTGCTGGAGG
AGGAGATCACCAAGTTTGAAGAGTGTATGCAGAGTGTGACATCGCAGCTTTCAACAAGA
TCTGGCCTGAGTGTGTGTGTGTGCCCGCTGCATGAGGCCCTGACACAATTAAAACTGA
GACCGGCAAAAAAAAAAAAAAAAAAAGGGACGAAAACAAACCTTAATGAAGCT

Gene 28. >ENST00000241471 cDNA sequence

GCAGAGAACAAAGATTGGTGGCTTCCTCCTGAGCACACTGGGATGTGGCATTACATCGGG
GCTGCTGAGTGCCCTTACCTTCAGCTGCCAGATGCAGAGGCAGTTCCACAAGGTACTGG
CACAAGAAGAGTCGTGGAAGACTGACCTGGCCATGGCTTCTCATGTCCAGCTCAGGACC
TGCCACATCAATTCTCCCTTTCCTCTGGCCGTACGTGTGGAGTGAAATTCTCAGAAGCG
GCTGTCCCTGTGCACCTCTCTGGCTGTGTCCAGAAAATGAACATCTGTTTACAGCTTCAA
TTTTCTAATGATTAG

Gene 29. >ENST00000241470 cDNA sequence

CGCGAGTTGAGCCGTTTTCCCGCGCTGTCCGCGCGGGCGCTCCGACAGCGGCTCTGCAGG
GTCCGCGGCCAGCGTCCGGCCACCGCTCGGCCGCCACTCAAGGCTCACGCGTCGATGTGT
AGCTACATAGTTATCTGTGTACATCCACGCTGGGGCATTCTCTCTGCTTAATGAGGAC
TTGACTCGGGAGCAAGTGTGAATCATTGCCGGGGCTGGGAAAGGAGGAAGGCGATTTAA
CCCCCTCCACCCCTCTCCATGTCCGTGTGTCACTCGGCTCGGTCCACCTGGCGCGGCCG
GTCCTGGGGCTGCTGCTGTGTTGACGACGACGACGACGACGAGGGGGCTGCCTCTGCTGTC
CCGGGAGTTTTCTCCTGCTCCGGCCACACAGCTCCTGGGGATTGTTCTCTTGAACACAG
AACCTCGGCCTGACCGGCACTTTGGCTCCAAAATAACTTTATTTTTGGGGGAGAAAGCAC
ATCAGCAACAGTCAAAATCGTGGTTTATTTCTGTAACTGAAGACTTCTGCTCTTTTTT
CTTTGTTTGTTTTTTTCGTAAACATCTGGGTGTATATCAACCGCAAGATGTCAGTAAT
GTCCCGGCGGATATGGATAAATTTGCGCCTCATTTTGGTAAGCGGAAAAACAAAAGAGTT
CCTGTTTTCTCCTAACGATTCTGCTTCTGACATTGCAAAGCATGTATATGACAATTGGCC
AATGGGACTGGGAAGAAGAGCAGGTGAGCAGTCCAAATATTCTACGACTTATTTATCAAG
GACGATTTCTACATGGAAATGTACATTAGGAGGCATTAACAACTTCTTTTTGGCAAAACA
ACAGTGATGCATTTGGTGGCCAGAGAGACATTACCAGAGCCAACTCTCAAGGGTCAGAG
GAATCGTGAGAAGACTGGAGAGAGTAATTGTTGTGTAATCCTGTAAACACTGTCTGCCTA
GTGTGATGTGATATAGTCTTTGTCTTTCATGCTGCTGGGACAGAAAAGACCCGACATTGC
TTCAGAAACCGTTTCAGAACAGTCTGCCTGTAAACACATGGAACCTGAATTACCATGAAC
ACTGTCATCTTTTCTCATGAAAGTAAAAAGAACCAAGAACATTTTTCACTCTGATTTTTT
ATTTCTTGATTTTTTGTGAGCTGTTTTAACACATATTGGTTTTTGAATGCAGTCAATC
TCCAGGGGAAAAGTTAACAAGTTATCTTTCGTAGCAGAAACCATTTTGCTGCCACAAAAT
TTTCATCATCAGAACTAATAAATCAAGTGTTCCAAATACAATTTGCATTAAAAAGATTGG
CATTATTTTCTCATCAGCAGAAATTTATAACAGTGTGTGGTATCTAGAAATACTTATATA
TACAAATCCACACTGGAAGACACTCAGCAATTAATGAAGTTAATTACTGGGCCAACTTGA
GAGGAAAAAATGGAAAAGAACTAAAATGTTGGGTGAATTCTACCAAAGTCAGCCGTGGT
GGCTGCACTGGCACAGAATACTAACTGAGTGTGACTATTTTCACTGCAACAAATGAAAA
AACAAAATGTGCCTGTTTAAAGCACTCAGTAGAGGGCTGATGAACTAATTTTTTTTCTT
TTAAGACATGCACTCTTGAGTCCTACAGTAACTGAGTGTGTTGTTTAGACAGCACAAAGAAG
GGGTGAGAGTGCGTCTCCTAGCCTTAATGTGGGAGGGTAGTTTCAGTCACTCATCGGCTT
TCATTATTGTGCAGAAATATTAGAAAACCTCATTGATCAATTTTATGTATTTGAATATCA
GCAAATTGAAATTTCCATAATTATCATTAATTTGTAACCACATCCAGTGTGATGCTTAC
TCCTTAGAGTTTCAATGAATTTTAAAAATTAATAAAAAAACTCCATAGTACTAATTTTGTT
TCTTTATATAGTTTGCGTTTTGATATTAGTGCTTGCAATTGTATTAAAGTCAAAAGCTGAT
TTTTATGGCATAACAAGAATGCCACTTTTTCTTTTATTTTATACCAATAATTTAAAGAT
TGATATGCTAAAAACAATTTGCAAGCACTAAAGCATGAGCTACTTTCATCTAAACCTGT

FIGURE 1 (CONT'D)

AAAAATATGAAAGATTTTTATATTTTTCTACTGGGAAGAAATTCCTCCTGGATGAAATTA
CAAATATGTGTAGAATATATTTAATAAAAGACTTATAAAATACCTAACTACAGGACTTAA
AATATAGATTGGCGCGTAGTATACAGAACAAATATTCCATATAAATAAGTTTAGCCTTTAT
AAAAATGAAGTTGCAGGCTGACATTACATTCTGTACTAAGTGTCAACAGCCCTTACAAAC
ATTAAATGTAAATGGTTTTCAATGGTCAGCGTTGTTTAAATGTAATCATGTTATTTTATT
CATTGTTAATGCTTTGATGAAAAGGCTTTATATGCAGTAGATCTACGAAAATATTGTTCA
TACTGATCAGAATTAATTTGTATAGAGCAGAGTTTTAAATGAATGTAAATAGCACTAA
ACGTTTTCTTTCTGCAACCTGTACTTACAGATTCTTCCTGTAAACTAAATAAAAAAAAAA
TGATAGTGCATTTTGGTGGTAATTTTAAAGGCTTGTAGGTCAATAATTGTTAAGCA
CCGTCTCATTATGTTTTCTACTTTTCAATTTCTTAAGCTTTTAAATTCATTTAATTAATA
TTCTGTTGTTGTTTTGGGGAGTATTCCCAATGTATCTTTGATATTTAACCTGGTTAATTT
GTGGACAGTCACAACAATGGATAGAATTATGTAGTCTCCGTTATCACTAAAATGTTATCT
TCAAGAGATGTTAAATATTTATATGCTTTGTTGACTAGCTGAAATGTGAATTCTGTTAGT
GTTGACTAAAGAATCTGGTAGTTGCTTAATTGGGCAATTAAACAATTTATGGCTCTATTT
TGTAACAACAACTACTGGTAATTATTTTTAATACCTATTTTCATTCTGATTACTCTTTTT
TTAAGTTAAAGACTATCAGTTAATTAAGATTGAGTTTTTATGATGGTTAAAAATAATTCT
CTATTGGTTTTTCAATATATTTTTCTGTGTGTTCTCAGATTATATATTTCCCTCAATTTA
GAGTTTGCTAAGTGAAATAAACTGGTTCAGTAGTAGAGAAAGATTACGTCGCTTAATAC
CTAATATCATAGTTGTACAATATGAAAAAAGAATAAAAAGTAGCAGTAAATTTATATA
CTGAAAACACCAAAATTTAGATGCCTTAATAGTATATACGTGAAATACTCAGCTGTCCC
TTTTAAAAATAATTCCTTGGACTGCCTGGTGGTTAAAAATACGATTCTCATATCCAAGGCT
ACTTTTGAAGATCCCTCTGCCAAAAATATAGCTCACTTATCTAAAGGTGAGAGCTGCATA
GATCCAGTAATGTACATAAAGCCTGAATGATGAGCCTATGTCCCTGCCTAACGCTGGTGT
CTCACTCATCTCTTTTACCTAAATTGTCCTGAACTTTGTTAAGTGTTCTGGACAAGGCCA
AGCTTTTCTTTATTAAAACTCAGCATGTCTCCCTGATCTGAACTATTTGCTTTCTCTTC
AAGATAAGTTGTATTTTACCATGGAAAAATACAGTATCTAACATTACCATTACGTTAAA
TGAAGTTTCTCATAACATTTATCTTTAGTTTTATGAAGTCATCGTGACCAATGTTACAG
TAATTTCTGTTAGCTGATTGTGGTAAACAATGTTTAAATGTGAAAAGAAATTAAAACTTTC
TTCATCTGTTGT

Gene 30. >ENST00000301980 cDNA sequence

ATGTCGCAGCCCGCGCTGCTCCCCGCCTCGGCGGAGACTCGGAAGTTCACCCGGGCGCTG
AGTAAGCCGGGCACGGCGGCCGAGCTGCGGCAGAGCGTGTCTGAGGTGGTGCGCGGCTCC
GTGCTCCTGGCAAAGCCAAAGCTAATTGAGCCACTCGACTATGAAAATGTCATCGTCCAG
AAGAAGACTCAGATCCTGAACGACTGTTTACGGGAGATGCTGCTCTTCCCTTACGATGAC
TTTCAGACGGCCATCCTGAGACGACAGGGTGCATACATATGCTCAACAGTGCCTGCGAAG
GCGGAAGAGGAAGCACAGAGCTTGTTTGTTACAGAGTGCATCAAAACCTATAACTCTGAC
TGGCATCTTGTTGAACTATAAATATGAAGATTACTCAGGAGAGTTTCGACAGCTTCCGAAC
AAAGTGGTCAAGTTGGATAAACTTCCAGTTTATGTTCTATGAAGTTGACGAGGAGGTGAC
AAAGATGAGGATGCTGCCTCCCTTGGTTCCCGAAGGGTGGGATCACCAAGCATGGCTGG
CTGTACAAAGGCAACATGAACAGTGCCATCAGCGTGACCATGAGGTCATTTAAGAGACGA
TTTTTCCACCTGATTCAACTTGGCGATGGATCCTATAATTTGAATTTTTATAAAGATGAA
AAGATCTCCAAAGAACCAAAAGGATCAATATTTCTGGATTCTGTATGGGTGTCGTTTCTC
AACAAACAAAGTCAGGCGTTTTGCTTTTGGAGCTCAAGATGCAGGACAAAAGTAGTTATCTC
TTGGCAGCAGACAGTGAAGTGGAAATGGAAGAATGGATCACAATTCTAAATAAGATCCTC
CAGCTCAACTTTGAAGCTGCAATGCAAGAAAAGCGAAATGGCGACTCTCACGAAGATGAT
GAACAAAGCAAATTGGAAGGTTCTGGTTCCGGTTTAGATAGCTACCTGCCGGAACCTTGCC
AAGAGTGCAAGAGAAGCAGAAATCAAACTGAAAAGTGAAAGCAGAGTCAAACTTTTTTAT
TTGGACCCAGATGCCGAGAAGCTTGACTTCTCATCAGCTGAGCCAGAAGTGAAGTCATTT
GAAGAGAAGTTTGGAAAAAGGATCCTTGTCAGTGCAATGATTTATCTTTCAATTTGCAA
TGCTGTGTTGCCGAAAATGAAGAAGGACCCACTACAAATGTTGAACCTTTCTTTGTTACT
CTATCCCTGTTTGACATAAAATAACAACCGGAAGATTTCTGCGGATTTCCACGTAGACCTG
AACCATTTCTCAGTGAGGCAAATGCTCGCCACCACGTCCCCGGCGCTGATGAATGGCAGT
GGGCAGAGCCCATCTGTCCTCAAGGGCATCCTTCATGAAGCCGCCATGCAGTATCCGAAG
CAGGGAATATTTTCACTCACTTGTCTCATCCAGATATATTTCTTGTGGCCAGAATTGAA

FIGURE 1 (CONT'D)

AAAGTCCTTCAGGGGAGCATCA CACATTGCGCTGAGCCATATATGAAAAGTT CAGACTCT
TCTAAGGTGGCC CAGAAGGTGCTGAAGAATGCCAAGCAGGCATGCCAAAGACTAGGACAG
TATAGAATGCCATTTGCTTGGGCAGCAAGGACATTGTTTAAGGATGCATCTGGAAATCTT
GACAAAAATGCCAGATTTTCTGCCATCTACAGGCAAGACAGCAATAAGCTATCCAATGAT
GACATGCTCAAGTTACTTGCAGACTTTTCGGAAACCTGAGAAGATGGCTAAGCTCCCAGTG
ATTTTAGGCAATCTAGACATTACAATTGATAATGTTTCCTCAGACTTCCCTAATTATGTT
AATTCATCATACATTCCCAAAAACAATTTGAAACCTGCAGTAAACTCCCATCACGTTT
GAAGTGGAGGAATTTGTGCCCTGCATACAAAACACACTCAGCCTTACACCATCTACACC
AATCACCTTTACGTTTATCCTAAGTACTTGAATACGACAGTCAGAAGTCTTTTGCCAAG
GCTAGAAATATTGCGATTTGCATTGAATTCAAAGATT CAGATGAGGAAGACTCTCAGCCC
CTTAAGTGCATTTATGGCAGACCTGGTGGGCCAGTTTTCACAAGAAGCGCCTTTGCTGCA
GTTTTACACCATCACCAAAACCCAGAATTTTATGATGAGATTAAAATAGAGTTGCCCACT
CAGCTGCATGAAAAGCACCACCTGTTGCTCACATTCTTCCATGTCAGCTGTGACAACTCA
AGTAAAGGAAGCACGAAGAAGAGGGATGTCGTTGAAACCCAAGTTGGCTACTCCTGGCTT
CCCCCTCCTGAAAGACGGAAGGGTGGTGACAAGCGAGCAGCACATCCCGGTCTCGGCGAAC
CTTCCTTCGGGCTATCTTGGCTACCAGGAGCTTGGGATGGGCAGGCATTATGGTCCGGAA
ATTAAATGGGTAGATGGAGGCAAGCCACTGCTGAAAATTTCCACTCATCTGGTTTCTACA
GTGTATACTCAGGATCAGCATTTACATAATTTTTTCCAGTACTGT CAGAAAACCGAATCT
GGAGCCC AAGCCTTAGGAAACGAACCTTGTAAGTACCTTAAGAGTCTGCATGCGATGGAA
GGCCACGTGATGATCGCCTTCTTGCCCACTATCCTAAACCAGCTGTTCCGAGTCCTCACC
AGAGCCACACAGGAAGAAGTCGCGGTTAACGTGACTCGGGTCATTATT CATGTGGTTGCC
CAGTGCCATGAGGAAGGATTGGAGAGCCACTTGAGGTCATATGTTAAGTACGCGTATAAG
GCTGAGCCATATGTTGCTCTGAATACAAGACAGTGCATGAAGAACTGACCAATCCATG
ACCACGATTCTCAAGCCTTCTGCCGATTTCTCACCAGCAACAACTACTGAAGTACTCA
TGGTTTTTCTTTGATGTACTGATCAAATCTATGGCTCAGCATTTGATAGAGAACTCCAAA
GTTAAGTTGCTGCGAAACCAGAGATTTCTGTCATCCTATCATCATGCAGTGGAAACCGTT
GTAAATATGCTGATGCCACACATCACTCAGAAGTTTCGAGATAATCAGAGGCATCTAAG
AACGCGAATCATAGCCTTGCTGTCTTCATCAAGAGATGTTTCACCTTCATGGACAGGGGC
TTTGTCTTCAAGCAGATCAACAACTACATTAGCTGTTTTGCTCCTGGAGACCCAAAGACC
CTCTTTGAATACAAGTTTGAATTTCTCCGTGTAGTGTGCAACCATGAACATTATATTCCG
TTGAACCTTACCAATGCCATTTGGAAAAGGCAGGATTCAAAGATACCAAGACCTCCAGCTT
GACTACTCATTAACAGATGAGTTCTGCAGAAACCACTTCTTGGTGGGACTGTTACTGAGG
GAGGTGGGGACAGCCCTC CAGGAGTTCGGGAGGTCCGTCTGATCGCCATCAGTGTGCTC
AAGAACCTGCTGATAAAGCATTCTTTTGATGACAGATATGCTTCAAGGAGCCATCAGGCA
AGGATAGCCACCCTCTACCTGCCTCTGTTTGGTCTGCTGATTGAAAACGTCCAGCGGATC
AATGTGAGGGATGTGTCAACCTTCCCTGTGAACGCGGGCATGACTGTGAAGGATGAATCC
CTGGCTCTACCAGCTGTGAATCCGCTGGTGACGCCGAGAAGGAAGCACCTGGACAAC
AGCCTGCACAAGGACCTGCTGGGCGCCATCTCCGGCATTGCTTCTCCATATACAACCTCA
ACTCCAAACATCAACAGTGTGAGAAATGCTGATTTCGAGAGGATCTCTCATAAGCACAGAT
TCGGGTAAACAGCCTTCCAGAAAGGAATAGTGAGAAGAGCAATTCCTGGATAAGCACCAA
CAAAGTAGCACATTGGGAAATTCGGTGGTTCGCTGTGATAAACTTGACCAGTCTGAGATT
AAGAGCCTACTGATGTGTTTCTCTACATCTTAAAGAGCATGTCTGATGATGCTTTGTTT
ACATATTGGAACAAGGCTTCAACATCTGAACTTATGGATTTTTTTACAATATCTGAAGTC
TGCCTGCACCAAGTTC CAGTACATGGGGAAGCGATACATAGCCAGAACAGGAATGATGCAT
GCCAGATTGCAGCAGCTGGGCAGCCTGGATAA CTCTCTCACTTTTAAC CACAGCTATGGC
CACTCGGACGCAGATGTTCTGCACCAAGTCACTTGAAGCCAACATTGCTACTGAGGTT
TGCCTGACAGCTCTGGACACGCTTTCTCTATTTACATTGGCGTTTAAAGAACAGCTCCTG
GCCGACCATGGACATAATCCTCTCATGAAAAAAGTTTTTGATGTCTACCTGTGTTTTCTT
CAAAAAATCAGTCTGAAACGGCTTTAAAAAATGTCTTCACTGCCTTAAGGTCCTTAATT
TATAAGTTTCCCTCAACATTTCTATGAAGGGAGAGCGGACATGTGTGCGGCTCTGTGTTAC
GAGATTCTCAAGTGTGTAACCTCCAAGCTGAGCTCCATCAGGACGGAGGCCTCCAGCTG
CTCTACTTCTGATGAGGAACAACCTTTGATTACACTGGAAAGAAGTCCTTTGTCCGGACA
CATTTGCAAGTCATCATATCTGT CAGCCAGCTGATAGCAGACGTTGTTGGCATTTGGGGGA
ACCAGATTCCAGCAGTCCCTGTCCATCATCAACAACTGTGCCAACAGTGACCGGCTTATT

FIGURE 1 (CONT'D)

AAGCACACCAGCTTCTCCTCTGATGTGAAGGACTTAACCAAAGGATACGCACGGTGCTA
 ATGGCCACCGCCAGATGAAGGAGCATGAGAACGACCCAGAGATGCTGGTGGACCTCCAG
 TACAGCCTGGCCAAATCCTATGCCAGCAGCCCCGAGCTCAGGAAGACGTGGCTCGACAGC
 ATGGCCAGGATCCATGTCAAAAATGGCGATCTCTCAGAGGCAGCAATGTGCTATGTCCAC
 GTAACAGCCCTAGTGGCAGAATATCTCACACGGAAAGAAGCAGTCCAGTGGGAGCCGCCC
 CTTCTCCCCACAGCCATAGCGCCTGCCTGAGGAGGAGCCGGGGAGGCGTGTTTAGACAA
 GGATGCACCGCCTTCAGGGTCAATTACCCCAAACATCGACGAGGAGGCCTCCATGATGGAA
 GACGTGGGGATGCAGGATGTCCATTTCAACGAGGATGTGCTGATGGAGCTCCTTGAGCAG
 TGCGCAGATGGACTCTGGAAAGCCGAGCGCTACGAGCTCATCGCCGACATCTACAAACTT
 ATCATCCCCATTTATGAGAAGCGGAGGGATTTTGAGAGGCTGGCCCATCTGTATGACACG
 CTGCACCGGGCCTACAGCAAAGTGACCGAGGTCATGCACTCGGGCCGAGGCTTCTGGGG
 ACCTACTTCCGGGTAGCCTTCTTCGGGCAGCAATACCAGTTTACAGACAGTGAAACAGAT
 GTGGAGGGATTCTTTGAAGATGAAGATGGAAAGGAGTATATTTACAAGGAACCCAACTC
 ACACCGCTGTGCGAAATTTCTCAGAGACTCCTTAAACTGTACTCGGATAAATTTGGTTCT
 GAAAATGTCAAATGATACAGGATTCTGGCAAGGTCAACCCTAAGGATCTGGATTCTAAG
 TATGCATACATCCAGGTGACTCACGTCAATCCCTTCTTTGACGAAAAGAGTTGCAAGAA
 AGGAAAACAGAGTTTGAGAGATCCCAACATCCGCCGCTTCATGTTTGAGATGCCATTT
 ACGCAGACCGGGAAGAGGCAGGGCGGGGTGGAAGAGCAGTGCAAACGGCGCACCATCCTG
 ACAGCCATACACTGCTTCCCTTATGTGAAGAAGCGCATCCCTGTCTATGTACCAGCACCAC
 ACTGACCTGAACCCCATCAGGTTGGCCATTGACGAGATGAGTAAGAAGGTGGCGGAGCTC
 CGGCAGCTGTGCTCCTCGGCCGAGGTGGACATGATCAAACCTGCAGCTCAAACCTCCAGGGC
 AGCGTGAGTGTTCAAGTCAATGCTGGCCCACTAGCATATGCGCGAGCTTTCTTAGATGAT
 ACAAACACAAAGCGATATCCTGACAATAAAGTGAAGCTGCTTAAGGAAGTTTTCAGGCAA
 TTTGTGGAAGCTTGCGGTCAAGCCTTAGCGGTAAACGAACGTCTGATTAAAGAAGACCAG
 CTCGAGTATCAGGAAGAAATGAAAGCCAACTACAGGGAAATGGCGAAGGAGCTTTCTGAA
 ATCATGCATGAGCAGGTGAGAAGATCTGCCCCCTGGAGGAGAAGACGAGCGTCTTACCGA
 ATTCCCTTACATCTTCAACGCCATCAGTGGGACTCCAACAAGCACAATGGTTTACGGGA
 TGACCAGCTCGTCTTCGGTCTGTGATTACATCTCATGGCCCGTGTGTGGGGACTTGCTT
 TGTCAATTTGCAAACCTCAGGATGCTTTCCAAAGCCAATCACTGGGGAGACCGAGCACAGGG
 AGGACCAAGGGGAAGGGGAGAGAAAGGAAATAAAGAAACAACGTTATTTCTTAACAGACTT
 TCTATAGGAGTTGTAAGAAGGTGCACATATTTTTTTTAAATCTCACTGGCAATATTCAAAG
 TTTTCATTGTGTCTTAACAAAGGTGTGGTAGACACTCTTGAGCTGGACTTAGATTTTATT
 CTTCTTTCAGAGTAGTGTTAGAATAGATGGCCTACAGAAAAAAAGGTTCTGGGATCTA
 CATGGCAGGGAGGGCTGCACTGACATTGATGCCTGGGGGACCTTTTGCCTCGAGGCTGAG
 CTGGAATAATCTTGAAAATATTTTTTTTTTCTGTGGCACATTCAGGTTGAATACAAGAAC
 TATTTTTGTGACTAGTTTTTGTATGACCTAAGGGAACTGACCATTGTAATTTTTGTACCAG
 TGAACCAGGAGATTTAGTGCTTTTATATTCAATTTCTTGCATTTAAGAAAATATGAAAGC
 TTAAGGAATTATGTGAGCTTAAACTAGTCAAGCAGTTTAGAACCAAAGGCCTATATTAA
 TAACCGCAACTATGCTGAAAAGTACAAAGTAGTACAGTATATTGTTATGTACATATCATT
 GTTAATACAGTCCTGGCATTCTGTACATATATGTATTACATTTCTACATTTTTAATACTC
 ACATGGGCTTATGCATTAAGTTAATTGTGATAAATTTGTGCTGTTCCAGTATATGCAAT
 ACATTTAATGTTTTATTCTTGTACATAAAAAATGTGCAATATGGAGATGTATACAGTCTT
 TACTATATTAGGTTTATAAACAGTTTTAAGAATTTTCATCCTTTTGCCAAAATGGTGGAGT
 ATGTAATTGGTAAATCATAAATCCTGTGGTGAATGGTGGTGTACTTTAAAGCTGTACCA
 TGTTATATTTTCTTTTAAAGACTTTAATTTAGTAATTTTATATTTGGGAAAATAAAGGTTT
 TTAATTTTATTTAACTGGAATCACTGCCCTGCTGTAATTAACATTCTGTACCACATCTG
 TATTAATAAGACATTGCTGACC

Gene 31. >ENST00000218552 cDNA sequence

CAGTCACCGGTAAGTTACTGAATCTGCGTTGGCTGCCTTTCATGCCACTGGTGCTCCTTT
 GTGGCTATGGACAGTGGGGGTGATTTCAATCCTGTGCTTGTTTTCTTTTTTGTACAGAG
 TTTCTTTGGTTATCCCCTGAGCATCTTCTTCATCGTGGTCAATGAGTTTTGCGAAAGATT
 TTCCTACTATGGAATGCGAGCAATCCTGATTCTGTACTTCACAAATTTTCATCAGCTGGGA
 TGATAACCTGTCCACCGCCATCTACCATACGTTTGTGGCTCTGTGCTACCTGACGCCAAT
 TCTCGGAGCTCTTATCGCCGACTCGTGGCTGGGAAAGTTCAAGACCATTGTGTGCTCTCTC

FIGURE 1 (CONT'D)

CATTGTCTACACAATTGGACAAGCAGTCACCTCAGTAAGCTCCATTAATGACCTCACAGA
CCACAACCATGATGGCACCCCCGACAGCCTTCCTGTGCACGTGGTGCTGTCTTGATCGG
CCTGGCCCTGATAGCTCTCGGGACTGGAGGAATCAAACCTGTGTGTCTGCGTTTGGTGG
AGATCAGTTTGAAGAGGGCCAGGAGAAACAAAGAAACAGATTTTTTCCATCTTTTACTT
GGCTATTAATGCTGGAAGTTTGCTTTCCACAATCATCACACCCATGCTCAGAGTTCAACA
ATGTGGAATTCACAGTAAACAAGCTTGTTACCCACTGGCCTTTGGGGTTCCTGCTGCTCT
CATGGCTGTAGCCCTGATTGTGTTTGTCTTGGCAGTGGGATGTACAAGAAGTTCAAGCC
ACAGGGCAACATCATGGGTAAAGTGGCCAAGTGCATCGGTTTTGCCATCAAAAATAGATT
TAGGCATCGGAGTAAGGCATTTCCCAAGAGGGAGCACTGGCTGGACTGGGCTAAAGAGAA
ATACGATGAGCGGCTCATCTCCCAAATTAAGATGGTTACGAGGGTGATGTTCTGTATAT
TCCACTCCCAATGTTCTGGGCCTTGTTTGACCAGCAGGGCTCCAGGTGGACACTGCAGGC
AACAACTATGTCCGGGAAATCGGAGCTCTTGAAATTCAGCCCGATCAGATGCAGACCGT
GAACGCCATCCTGATCGTGATCATGGTCCCGATCTTCGATGCTGTGCTGTACCCTCTCAT
TGCAAAATGTGGCTTCAATTTACCTCCTTGAAGAAGATGGCAGTTGGCATGGTCTTGGC
CTCCATGGCCTTTGTGGTGGCTGCCATCGTGCAGGTGGAAATCGATAAAACTCTTCCAGT
CTTCCCCAAAGGAAACGAAGTCCAAATTAAGTTTTGAATATAGGAAACAATACCATGAA
TATATCTCTTCTGGAGAGATGGTGACACTTGGCCCAATGTCTCAACAAATGCATTTAT
GACTTTTGATGTAAACAACTGACAAGGATAAACATTTCTTCTCTGGATCACCAGTCAC
TGCTGTAACTGACGACTTCAAGCAGGGCCAACGCCACACGCTTCTAGTGTGGGCCCCAA
TCACTACCAGGTGGTAAAGGATGGTCTTAACCAGAAGCCAGAAAAAGGGGAAATGGAAT
CAGATTTGTAAATACTTTTAACGAGCTCATCACCATCACAATGAGTGGGAAAGTTTATGC
AAACATCAGCAGCTACAATGCCAGCACATACCAGTTTTTCTCTTCTGGCATAAAAGGCTT
CACAATAAGCTCAACAGAGATTCCGCCACAATGTCAACCTAATTTCAATACTTTCTACCT
TGAATTTGGTAGTGCTTATACCTATATAGTCCAAAGGAAGAATGACAGCTGCCCTGAAGT
GAAGGTGTTTGAAGATATTTTCAGCCAACACAGTTAATCATGGCTCTGCAATCCCGCAGTA
TTTTCTTCTCACCTGTGGCGAAGTGGTCTTCTCTGTACGGGATTGGAATTCTCATATTC
TCAGGCTCCTTCCAACATGAAGTCGGTGCTTCAGGCAGGATGGCTGCTGACCGTGGCTGT
TGGCAACATCATTGTGCTCATCGTGGCAGGGGAGGCCAGTTTCAGCAACAGTGGGCCGA
GTACATTCTATTTGCCGCGTTGCTTCTGGTCTGTGTGAATTTTGGCCATCATGGCTCG
GTTCTATACTTACATCAACCCAGCGGAGATCGAAGCTCAATTTGATGAGGATGAAAAGAA
AAACAGACTGGAAAAGAGTAACCCATATTTTCATGTACAGGGGCCAATTACAGAAACAGAT
GTGA

Gene 32. >ENST00000313260 cDNA sequence

ATGGACCAGTGGGGGGTGTATTTCAATCCTGTGCTTGTTTTTGTGTCAGAGTTTCTTTGGT
TATCCCCTGAGCATCTTCTTCATCGTGGTCAATGAGTTTTGCGAAAGATTTTCTACTAT
GGAATGCGAGCAATCCTGATTCTGTACTTCACAAATTTTCATCAGCTGGGATGATAACCTG
TCCACCGCCATCTACCATACGTTTGTGGCTCTGTGCTACCTGACGCCAATTCTCGGAGCT
CTTATCGCCGACTCGTGGCTGGGAAAGTTCAAGACCATTGTGTGCTCTCCATTGTCTAC
ACAATTGGACAAGCAGTCACCTCAGTAAGCTCCATTAATGACCTCACAGACCACAACCAT
GATGGCACCCCCGACAGCCTTCCTGTGCACGTGGTGCTGTCTTGATCGGCCTGGCCCTG
ATAGCTCTCGGGACTGGAGGAATCAAACCTGTGTGTCTGCGTTTGGTGGAGATCAGTTT
GAAGAGGGCCAGGAGAAACAAAGAAACAGATTTTTTCCATCTTTTACTTGGCTATTAAT
GCTGGAAGTTTGCTTTCCACAATCATCACACCCATGCTCAGAGGTAAGAGATACCTGAAA
GGAACCTTCTGTTGGTCTTTTT

Gene 33. >ENST00000320096 cDNA sequence

GGCCGCCTCCTGGGGCAGAATGGAACAGCCTGGGCCAGGGCTCCGGATCCCTCTCTCTG
CCACCACAACCTCCAGCCAACAGATGACCCCAACTGGGATTCTTATGCTACCACTATGAG
GACTGCATTACGCCTAAACAGGAGCAGTGCCTGCCTTAATTCGCCAAAACGGTATCAG
AAGATTAGGATATACATATTCACCTTAGTGATCCTATTCTCAATCAGACACAATATAGTGA
TGAGTACACTTGGAAATCACACTCTAAAGAAGATTTGATCAAACTGAGACTTCAAGAGG
AATCAAGAGCCACAATCTCATCTCAATGAAGACATTTTCTGTGGACACTACCTCACTG
TCAACAAACGGGGACACTAAAGAACTGCCTCCCTTGGAAAATCCCGGCTTCAATGAAAGA
AGTTAAACAGGCACTATCAAATCAGTTTATTTCCCTTACTAAGAGAGACTTTGTGGACAG
ATCAAAAGCTCAGAAGATTAAGAAAAGTTCTCACTTGTCTCTGGAATGGAAAAGTTACT

FIGURE 1 (CONT'D)

TCCCCAACCTCCAGACACTGAATTCCGAAGGAATTACCAAATTCAGCTAAAATTCCTGA
GCTTCAAGATTTTCAGTTTCAAATATGGATGCTACTCAAGCTTGCCTGTTGCTTCTCAGGG
TCTAGTGCCTTCTGTGCTGCACAGCTACCTGAGGAACCAAGAGCACACAAAGAAACAGAC
CACATACCAAAGTGACTACGACAAAACCTACCCAGATTTCTTAATGCTTTTAAACTCATT
TACTTCCTCTCAAGTCAAAGAGTACCTTCAGAGTCTTTCTACAAAGATAGACAAATTAT
TGATCGCTTTATTTCGTACTCACTGTGACACTAACAAAAAGAAGAAATGAAAAGGGAAAAT
AGTACAAATGAAGAAAATCTGAAAATCAATGGAAGCACGAGGACATTCTTAGTCATTTTC
TCAATTATCAAGGAAAAATAAGATGCAAATAGCTTC

Gene 34. >ENST00000325317 cDNA sequence

GTGAAGGCCAGAAAAAACAGATTTGGCCATATTGGGGGCTGGTCACCAGGGATGCCAAC
TCTGGCAAAGTGGATATTGTCACTATCAATGACCTCAACTACATGGTCTCCATGTTCCAG
TATGATTCCGCTCATGGCAAGTTCCACGGCACCATCAAGGCTGAGAACGGGAAGCCTGCC
ATCAATGACAATCCCATCACCATCTCGCAG

Gene 35. >ENST00000218987 cDNA sequence

CTGGGGTCTGTGGCCGTGGGCCGGCAGGGGCGAGGCGGGCGTTCAGAGGGCGGATAAAAGG
GGCCGCGCTGCGCCGGGGCCGCTTTCTCCGCGCGGTGCCTGCAGGGCTCCAGCGAGTGG
CAGCTTGGGAGGGGCGCCCGGGCGGTTCAGACTGGCACCTGAGCGGCCACCGCGTCCCGG
CCAGGCGGGCAGACCGACCCCTCCTCACCTCGCGCGCGGTGACGCAGGCAGGGCGCCC
GGCCCTCCTGGGGACCATCAGGTGCGGGCTGGGGGCTGTAGGCACCGGACGGAAGCAGG
CGGTGTGAGGACCGACGACGCGGGCATGGCGGGGGCGGCTGCGAGCCGGTGGCCAGGCC
GAGCCTGACCTCCATCTCGTCTGGGAGCTTCGAGCCTGTGGACCTGCGACTGCGAGCT
GGCCCTGCTGCCGCTGGCTCAGCTGCTGCGCCTGCAGCCCGGTGCCTTCCAGCTGAGCGG
CGACCAGCTCGTGGTGGCCAGGCCCCGGGGAGCCGGCGGCGGGGGGGCTTCAACGT
CTTCGGTGACGGCCTCGTGCCTCGACGGGCAGCTCTACCGCTCAGCAGCTACATCAA
GAGGTATGTGAACTGACCAACTACTGTGATTATAAAGACTACAGGGAACTATATTGAG
CAAACCAATGTTGTTCTTTATTAATGTACAGACCAAAAAAGACACCTCAAAGAAAGGAC
GTACGCGTTTTCTGTAAACACGAGGCACCCCAAGATAAGAAGACAGATAGAGCAAGGGAT
GGACATGGTCATCTCCTCAGTGATTGGAGAAAGTTACCGGCTTCAGTTTGATTTTCAAGA
GGCAGTGAAGAATTTCTTCCCCCAGGAAATGAAGTGGTTAATGGAGAAAATTTAAGCTT
TGCATATGAATTCAAAGCTGATGCATTATTTGATTTCTTCTATTGGTTTGGGCTCAGTAA
TTCCGTTGTAAAAGTAAATGGAAAAGTTCTGAATTTGTCAAGTACAAGTCCAGAAAAGAA
GGAGACGATTAAGTTATTTCTGGAAAAATGAGTGAGCCTTTAATCCGAAGGAGCAGTTT
CTCTGACCGAAAGTTCAGTGTAACCTCCAGAGGTTCAATAGATGATGTTTTTAAGTCAA
TCTGTCAACCAGATCATCTCTGACAGAGCCTCTTTTGGCAGAATTACCATTTCCAAGTGT
TCTGGAATCTGAAGAGACACCCAACCAATTTATCTGATTGAACTGAACATTGTAGCAGTT
GCTCCCGCACTCCAGGCCTGTGCTAGACTATAGGCTGGGGGGAGGGTAGGAGGTGGGAGG
CAGATACCTCCACCTGCGTGTCAATCTCCGGCTCCTCCATGGCTTCTATGGAGGACTCCT
CTCTTCTGCTTCTGTGGATGTGATGCCCTGGCAGGCCAGGGCAGCTGATTCCCCTAAAA
CTTATGATTACCAGGATGGAAAGGCCTTGGTCCCATGGCACTGGGTGGGGCTGGGGGATA
TTCTCTACTTTGAACACTTCTCCAAAGAGGCAGAAGGGCCACAGAGTTCTGCCACCCTGA
ACATTTTCTCAGTTCCCTGGGAGTTTTTGTGGCAGCCTTTGTGGGAGTGGTCTGACTGG
CTGTTGACCTAGCATGCTTCATAAATCAGGGTTTGGCCCTCTGCTTGGAGCATCCAACCC
CTTGAACCTCAAACCTGTGCGAGCAAGGGGTAAAGAGTTCTGTTCTCTTGCCAACCTGGCTG
GGCAAAGCCTGTGCCATCTTTCACTGGGAGGCAAATATGTTTTTTCATCCTGCCATATGA
CACCTATGAGAAACGTTTCAAGTGAGGAGTAGCCAGGTGCTAGGACAGTAACCTTGCCA
CACACTGCCTGAAATCGGAACTCCCTTGGCCTCCCTCTTAACCTAAGTGACCCATGTAGAA
GGAAGCCAGGAGATATGGTACCGAACAATGACAGGGGAAGGGTATTGGACACGGCAGCGT
CCTCCTTATTGAAAAACATTATGTGAGTTGGGAATTTTAAATAAGCTTTTAGCAAACCT
AACACTAAAAGCAAAATAGAAGAAAGCTATACCATTACCATAATACATTTTTCATCTCAT
GGCTACAATGGAATTTCTTGAAGGAAAAAATCCTATCTACATATAAAAACCTGCAT
GAATGAATCACTACATATGCTTATAATGAGGAAGAGTTATGGGTCTGAGTGAATTTTT
TATCCTTTCTTAAAAAGTTTCTGTATTATGCATTTTGATAACACTACTGATGATCCTTCC
ACTTATATTTGAAATGTTATGTACCACATTTGCACAATTAAACCTTTTCTTAGCATTCAA
CCT

FIGURE 1 (CONT'D)

Gene 36. >ENST00000261578 cDNA sequence

```
GCTGGCTGCGGAAGGGGAGGGGGGGGAGAAGGCGATTGGATGCGGCGGCGGCGGCGGAT
CCCGGAGAGCCCCGGAGTGAGCGGAGTAGCGAGTCGGCAACC CGAGGGGGTAGAAATAT
TTCTGT CATGGCTCATTCAAAGACTAGGACCAATGATGGAAAAATTACATATCCGCCTGG
GGTCAAGGAAATATCAGATAAAATATCTAAAGAGGAGATGGTGAGACGATTAAAGGATGG
TTGTGAAAACTTTTATGGATATGGACCAGGACTCTGAAGAAGAAAAGGAGCTTTATTTAA
ACCTAGCTTTACATCTTGCTTCAGATTTTTTTCTCAAGCATCCTGATAAAGATGTTTCGCT
TACTGGTAGCCTGCTGCCTTGCTGATATTTTCAGGATTTATGCTCCTGAAGCTCCTTACA
CATCCCCTGATAAACTAAAGGCAAGGATATATTTATGTTTATAACAAGACAGTTGAAGGG
GCTAGAGGATACAAAGAGCCCACAATTCAATAGGTATTTTTATTTACTTGAGAACATTGC
TTGGGTCAAGTCATATAACATATGCTTTGAGTTAGAAGATAGCAATGAAATTTTCACCCA
GCTATACAGAACCTTATTTTCAGTTATAACAATGGCCACAATCAGAAAGTCCATATGCA
CATGGTAGACCTTATGAGCTCTATTATTTGTGAAGGTGATACAGTGTCTCAGGAGCTTTT
GGATACGGTTTTAGTAAATCTGGTACCTGCTCATAAGAATTTAAACAAGCAAGCATATGA
TTTGGCAAAGGCTTTACTGAAGAGGACAGCTCAAGCTATTGAGCCATATATTACCAATTT
TTTTAATCAGGTTCTGATGCTTGGGAAAACATCTATCAGCGATTTGTGAGAGCATGTCTT
TGACTTAATTTTGGAGCTCTACAATATTGATAGTCATTTGCTGCTCTCTGTTTTACCCA
GCTTGAATTTAAATTAAAGAGCAATGATAATGAGGAGCGCCTACAAGTTGTTAAACTACT
GGCAAAAATGTTTGGGGCAAAGGATTGAGAATTGGCTTCTCAAAACAAGCCACTTTGGCA
GTGCTACTTGGGCAGGTTTAAATGATATCCATGTACCAATCCGCCTGGAATGTGTGAAATT
TGCTAGCCATTGTCTCATGAACCATCCTGATTTAGCAAAAGACTTAACAGAGTATCTTAA
AGTGAGGTACATGACCCTGAGGAAGCTATTAGACATGATGTTATTGTGTCAATAGTTAC
AGCTGCTAAAAAGGATATTCTTCTGGTCAATGATCACTTACTTAATTTTGTGAGAGAGAG
AACATTAGACAAACGATGGAGAGTACGCAAGAAGCCATGATGGGACTTGCCCAAATTTA
TAAGAAATATGCTTTACAGTCAGCAGCTGGAAAAGATGCTGCAAAACAGATAGCATGGAT
CAAAGACAAATTGCTACATATATATTATCAAAATAGTATTGATGATCGACTACTTGTTGA
ACGGATCTTTGCTCAATACATGGTTTCCTCACAATTTAGAACTACAGAACGGATGAAATG
CTTATATTACTTGTATGCCACACTGGATTTAAATGCTGTGAAAGCATTGAATGAAATGTG
GAAATGTCAAAATCTGCTCCGACATCAAGTAAAGGATTTGCTTGACTTGATTAAGCAACC
CAAAGTAAATGCCAGTGTCAAGGCCATATTTTTCAAAGTGATGGTTATTACAAGAAATTT
ACCTGATCCTGGTAAGGCTCAGGATTTTCATGAAGAAATTCACACAGGTGTTAGAAGATGA
TGAGAAAATAAGAAAGCAGTTAGAAGTACTTGTTAGTCCAACATGCTCCTGCAAGCAGGC
TGAAGGTTGTGTGCGTGAAATAACTAAGAAGTTGGGCAACCCCAAACAGCCTACAAATCC
TTTCTGGAAATGATCAAGTTTTCTCTTGAGAGGATAGCACTGTGCACATAGATACCGA
ATCTATCAGTGCTCTTATTTAAACAAGTGAACAAATCAATAGATGGAAACAGCAGATGATGA
AGATGAGGGTGTTCCAACCTGATCAAGCCATCAGAGCAGGTCTTGAACCTGCTTAAGGTACT
CTCATTTACACATCCCCTCTCATTTTCATTCTGCTGAAACATTTGAATCATTACTGGCTTG
TCTGAAAATGGATGATGAAAAAGTAGCAGAAGCTGCACTACAAATTTTCAAAAACACAGG
AAGCAAAATTGAAGAGGATTTTCCACACATCAGATCAGCCTTGCTTCTGTTTTACATCA
CAAATCTAAAAAAGGACCCCCCGTCAAGCCAAATATGCCATTCAATTGTATCCATGCGAT
ATTTTCTAGTAAAGAGACCCAGTTTGCAAGATATTTGAGCCTCTGCATAAGAGCCTAGA
TCCAAGCAACCTGGAACATCTCATAACACCATTGGTTACTATTGGTCATATTGCTCTCCT
TGCACCTGATCAATTTGCTGCTCCTTTGAAATCTTTGGTAGCTACTTTTCATTGTGAAAGA
TCTTCTCATGAATGATCGGCTTCCAGGGAAAAAGACAACCTAACTTTGGGTTCAGATGA
AGAAGTATCTCCTGAGACAATGGTCAAAATTGAGGCTATTTAAATGATGGTTCGATGGCT
ACTTGGAATGAAAAATAATCACAGTAAATCAGGAACTTCTACCTTAAGATTGCTAACAAC
AATATTGCATAGTGATGGAGACTTGACAGAACAGGGGAAAATTAGTAAACCAGATATGTC
ACGTCTGAGACTTGCTGCTGGGAGTGCTATTGTGAAGCTGGCAACAAGAACCTGTTACCA
TGAAATCATCACATTAGAACAATATCAGCTATGTGCATTAGCTATCAACGATGAATGCTA
TCAAGTAAGACAAGTGTTTGCCAGAACTTCAAAAAGGCCTTTCCCGTTTACGGCTTCC
ACTTGAGTATATGGCAATCTGTGCCCTTTGTGCAAAAGATCCTGTAAAGGAGAGAAGAGC
TCATGCTAGGCAATGTTTGGTGAAAAATATAAATGTAAGGCGGGAGTATCTGAAGCAGCA
TGCAGCTGTTAGTGAAAAATTATTGTCTCTTCTACCAGAGTATGTTGTTCCATATACAAT
TCACCTTTTGGCACATGACCCAGATTATGTCAAAGTACAGGATATTGAACAACTTAAAGA
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FIGURE 1 (CONT'D)

TGTTAAAGAATGTCTTTGGTTTGTCTGGAAATATTAATGGCTAAAAATGAAAATAACAG
 TCACGCTTTTATCAGAAAGATGGTAGAAAATATTAACAAACAAAAGATGCCCAAGGACC
 AGATGATGCAAAAATGAATGAAAACTGTACACTGTGTGTGATGTTGCCATGAATATCAT
 CATGTCAAAGAGTACTACATACAGTTTGAATCTCCTAAAGACCCGGTACTACCAGCTCG
 TTTCTTCACTCAACCTGACAAGAATTTAGTAACACCAAAAATTATCTGCCTCCTGAAAT
 GAAATCATTTTTCTCTCTGGAAAACCTAAAAACAACCAATGTTCTAGGAGCTGTTAACAA
 GCCACTTTTCATCAGCAGGCAAGCAATCTCAGACCAAATCATCAAGAATGGAACTGTAAG
 CAATGCAAGCAGCAGCTCAAATCCAAGCTCTCTGGAAGAATAAAGGGGAGGCTTGATAG
 TTCTGAAATGGATCACAGTGAAATGAAGATTACACAATGTCTTCACTTTGCCGGGGAA
 AAAAAAGTGACAAGAGAGACGACTCTGATCTTGTAAGGTCTGAATTGGAGAAGCCTAGAGG
 CAGGAAAAAACGCCCGTCAAGAACAGGAGGAGAAATTAGGTATGGATGACTTGACTAA
 GTTGGTACAGGAACAGAAACCTAAAGGCAGTCAGCGAAGTCGGAAGAGGGCCATACGGC
 TTCAGAATCTGATGAACAGCAGTGGCCTGAGGAAAAGAGGCTCAAAGAAGATATATTAGA
 AATGAAGATGAACAGAATAGTCCGCCAAAAAAGGGTAAAAGAGGCCGACCAACCAAAACC
 TCTTGGTGGAGGTACACCAAAAGAAGAGCCAAATGAAAACCTCTAAAAAGGAAGCAA
 AAAAAATCTGGACCTCCAGCACAGAGGAGGAGGAAGAAGAAGAAAGACAAAGTGAAA
 TACGGAAACAGAAGTCCAAAAGCAAACAGCACCGAGTGTCAAGGAGAGCACAGCAGAGAGC
 AGAATCTCCTGAATCTAGTGAATTGAATCCACACAGTCCACACCAAGAAAGGACGAGG
 AAGACCATCAAAAACGCCATCACCATCACAACCAAAAAAATGTCCGTGTAGGACGCTC
 CAAACAAGCAGCTACTAAGGAAAATGATTCAAGTGAAGAAGTAGATGTGTTTCAGGGTAG
 CTCTCCTGTGATGATATTCCACAGGAAGAAAACAGAGGAGGAGGAAGTTTCTACAGTAA
 TGTACGGCGGCGAAGTGCTAAAAGGGAACGGCGATGAACAAATGTAATTAATAACTTTCT
 CTGTGAAAGCTTTGGAAAAATCTTTTTTTTTTTTTTGGTCAAGCTTGAGGCTGAATAAA
 GCCTTTTGATGCACAAAATGGGACTGCTGAAGAGTGGACAGTTGGACCTTACTTTGGTGAC
 CCCATACATTTGTGGTCACATGCTTTAGCCATACACATGGTAACATTGACTATGGAGTCT
 TGTGAAAGTGTAATGTGCGATGGCTATGTAGACATAAAGAAGAACTTGTAATATCTTT
 TTTCTTTTTTTTAAATGTTTCTGATTTCTGAAGTGCTTGATAGCTTTTATCTGCGGCTTT
 AAAGTACAGTACCCGACTGTTTATTGGATCTATTGATTTGAAAAGAATTTGTTAGGATA
 GATCTTAAGCAGTAATCTGTGAGTGTGTTGATTTGTATTCTCTGCAATTTTACTGTGAAA
 AAAAATTTGTTTTCAACAATTGGTGTCAATTTCTTGATGTCACTATTTGTTGGAGAGTTA
 AATGGTCTCTTCCCTTTGTGTATCTTACCTAGTGTTTACTCCTGGGCACCTTAATCTTC
 AGAGGTGCTAAATTTGTCTGCCATTACACCAGAAGGATGCCTCTGATAGGAGGACAACCAT
 GCAAATTTGTGAAATAGTCTGAAGTTCTTGGATTACTTTACACCTCAGTATTGATTTGTC
 CCAGAATTTTCTGGCCTTTTCATGGCAATGAAAATTTTAAGAAGAAAGATTTAAAGTATTT
 TAATTTTAAAGAGTGTGTTATAAAATAATGTACTGAATTTCTTTATCCCATTTTATCATCC
 TTTTCTGTTTTTATTAATCTACTGTATCAATAAAATTTCTGTAATTTGAATGAGTTTTTAAAT
 AGTCTAGAATGTTATTGTGTATAGATATTTCTCTTGAACGTTATGTTTCAAGAAATGCAA
 ATTACACTATAATATAAAACCTGATATATACACATTAGAAATATTCCAGTTCTCCGTAAC
 AGTGTAAAGTTAATCAGAAAGAAAAAATTTTATTGATGCAGTGTGTCTTTATAAAGCTGT
 TCTTGAAAGCCAAGTGTGTTTTGTATTTTATAGTGAGTTGCATGTTTTTGAAAAAAGTGCT
 GAAAATGGGATGTGCTGTTTTCTGTAAATTCATATTTAGCCATAGTATATGATAGATTGC
 CCCATAACATAGTTTTTTCATCAAGAGTTTATTATTGTACTTTATTTTGGAGCCAAAAAAT
 TGATTCTGGGGGGTGGGGGCAGCGTAGAAGTGGTATATCCAAGTATATCAGCTACTGTAG
 TTGTCAAGTCTTGTGAACCTTTGAATGAAATTCACCTTTGTCCAGATTGGGAGAAGTGGA
 AATTTATTTGGATTTAGAGCAGGTCTTTTTTTTTCTTCATTGTAATCTGCAAAATGTAGA
 AATAAATTACTTAAGGCAGTATCCTTTATACAGTTGTATAAACTGTATTTTGAAACAAAA
 CATATAGGTTACTACTTAATGCTTACCTAATTTTCAATTTAGTATTTTAGGTGCTGTTATG
 TTTTTTTCATGGTTAAACACCAGAGGGGAAAAAATCATATTTCTAACTTATTAAATTTATCAC
 ATTGAATAGTGGAACATTTTTCATATGATACACCATATGTTTAAAGATATATTTCCAAGAT
 TGGTTATAATAGATGGGGCATATAATAAAGAAGCTACTATTTTGAAAAATGACATTTTAC
 TATTTGCCAATGTATATTGCAATTGATGTGATTATTTTTCTTTTAAAGATTTGTTTGTGT
 TTATGAAACAGCCATTTATTTTTTAAAAAGTGTGTTTGAATTGTGTCTTAATCTCTCCATA
 TTCAACTATTCTTCATTTACAACAATAGTGACACCAGTAATTATGAGAGGCTGTCTATATA
 TCAAAGCAGCTCAGGTGGGATCAACATACATTGGTTTTTGAAATGTTTCTTAGCTCGGTT

FIGURE 1 (CONT'D)

CTCCCAAACACATAATTTCTGTTTCAGCAGTACAAAGGCATGTTTTAAATCTATAACAT
AAAGAATAAGGAATAGCTTTGTATTTTGTGTCATTGATTAAATTGCACCAGAAATGTTTAT
GGAAATATTAAGAACATTTTATAAAACATACGAAAAAGTGATTGTGAAGGATTTTATTT
GCATGATTATAGTTAAGCAAATTTTCATTTACATTTTGTAAATGCTGTACAGCAGTTCAC
AAAAAATGTTTCATTGTAGATTTTGTATGTTCAATGCCAATGAGTCTGTAATTTTACGA
CCTGTCTGTTCTTTTTTGGGTGGATTACGATGTAAATTTTCTTTCTTTCTTTCTTT
TTTTTTTTTTTGTGTAGAAAAATAGGTGCAATAATGATCAAAGTTTTGATGTCTTGAGTC
TCCATCTTAGGGGATTATCTTACGTTTAAGCTTAACATTTTCATGTAGTAAGATTTGGAGA
GCCACATACTTTACAGTAAAATTAAGTGTGTATAAAACATTAATTGCTAACAATTGTTAG
CAAATATTTTCAGTGATAATGTTTCATTTTGAATAATGTACTGTATAACATTAAGAAAAT
ATTTAACTCCCTGTAACAAGTTCCATTATGAAAATCTTATTCCTCAGTGAGGTTATCTTG
CTGCACTCTGTAGCAAATTTGTTTAATCTACATTATAATAAAATTTCTTGCTGCAGTGCA
ACAGGAGGCTTTTTTCAGTGATCTTCACTGTATATGTAAATTACAAATGTGGCTGTAAAC
TTATTCCAGGTATTAAAGGTTAAATGCTTTCTATATCTTCTTATAACTTGTAAGTCTGA
TTTTTAAGATTTCTTTTGTCCACTTGTAAGAATGTCAGGAATTTAAGAATTTGTTTAA
TTAGGCATATCTCTGCCATCACATAGTATTATGTCACCATAATGAACAATTGCTATTTAA
ATAGATAACCAATTTTCAGACACATTTTGGATTTCTGTGAAGTTGAATAAACATAAAAG
CTAA

Gene 37. >ENST00000310787 cDNA sequence

GTGAGAGGTGAGCAGAGGGGCGGTCTGCGGGGACAACAATGGCGGGTTCTGGGTGCGGA
CAGCACCGCTGGTGCCTGCCGACGGCGTGGGCGGTGGCCGCCGAGCAGCTGATGCTGA
GCGCGGCGCTGCCGACCCTGAAGCATGTTCTGTACTATTCAAGACAGTGCTTAATGGTGT
CCCGTAATCTTGGTTTCAGTGGGATATGATCCTAATGAAAAAATTTTGATAAAATTTCTTG
TTGCTAATAGAGGAGAAATTGCATGTGCGGTTATTAGAATTGCAAGAAGATGGGCATTA
AGACAGTTGCCATCACAGTGATGTTGATGCTAGTTCTGTTTCATGTGAAAATGGCGGATG
AGGCTGTCTGTGTTGGCCAGCTCCACCAGTAAAGCTACCTCAACATGGATGCCATCA
TGGAAGCATTAAAGAAAACAGGGCCCAAGCTGTACATCCAGGTTATGGATTCTTTTCAG
AAAACAAAGAATTTGCCAGATGTTTGGCAGCAGAAGATGTCGTTTTTCATTGGACCTGACA
CACATGCTATTCAAGCCATGGGCGACAAGATTGAAAGCAAATTATTAGCTAAGAAAGCAG
AGGTTAATACAATCCCTGGCTTTGATGGAGTAGTCAAGGATGCAGAAGAAGCTGTCAGAA
TTGCAAGGGAAATTGGCTACCCTGTGATGATCAAGGCCTCAGCAGGTGGTGGTGGGAAAG
GCATGCGCATTGCTTGGGATGATGAAGAGACCAGGGATGGTTTTAGATTGTCTCTCAAG
AAGCTGCTTCTAGTTTTGGCGATGATAGACTACTAATAGAAAAATTTATTGATAATCCTC
GTCATATAGAAATCCAGGTTCTAGGTGATAAATGGAATGCTTTATGGCTTAATGAAA
GAGAGTGCTCAATTGAGAGAAGAAATCAGAAGGTGGTGGAGGAAGCACCAGCATTTTTT
TGGATGCGGAGACTCGAAGAGCGATGGGAGAACAAAGCTGTAGCTCTTGCCAGAGCAGTAA
AATATTCCTCTGCTGGGACCGTGGAGTTCTTTGTGGACTCTAAGAAGAATTTTTATTTCT
TGGAAATGAATACAAGACTCCAGGTTGAGCATCCTGTACAGAATGCATTACTGGCCTGG
ACCTAGTCCAGGAAATGATCCGTGTTGCTAAGGGCTACCCTCTCAGGCACAAACAAGCTG
ATATTGCGATCAACGGCTGGGCAGTTGAATGTCGGGTTTATGCTGAGGACCCCTACAAGT
CTTTTGGTTTTACCATCTATTGGGAGATTGTCTCAGTACCAAGAACCCTTACATCTACCTG
GTGTCGAGTGGACAGTGGCATCCAACCAGGAAGTGATATTAGCATTTATTATGATCCTA
TGATTTCAAACTAATCACATATGGCTCTGATAGAACTGAGGCACTGAAGAGAATGGCAG
ATGCACTGGATAACTATGTTATTGAGGTGTTACACATAATATTGCATTACTTCGAGAGG
TGATAATCAACTCACGCTTTGTAAAAGGAGACATCAGCACTAAATTTCTCTCCGATGTGT
ATCCTGATGGCTTCAAAGGACACATGCTAACCAAGAGTGAGAAGAACCAGTTATTGGCAA
TAGCATCATCATTGTTTGTGGCATTCCAGTTAAGAGCACAACATTTTCAAGAAAATTCAA
GAATGCCTGTTATTAAACCAGACATAGCCAACCTGGGAGCTCTCAGTAAATTTGCATGATA
AAGTTCATACCGTAGTAGCATCAACAATGGGTGAGTGTCTCGGTGGAAGTTGATGGGT
CGAAACTAAATGTGACCAGCACGTGGAACCTGGCTTCGCCCTTATTGTCTGTCTCAGCGTTG
ATGGCACTCAGAGGACTGTCCAGTGTCTTTCTGAGAAGCAGGTGGAAACATGAGCATTC
AGTTTCTTGGTACAGTGTACAAGGTGAATATCTTAACCAGACTTGCCGCGAGAATTGAACA
AATTTATGCTGGAAAAAGTGACTGAGGACACAAGCAGTGTCTGCGTTCCCGGATGCCCG
GAGTGGTGGTGGCCGTCTCTGTCAAGCCTGGAGACGCGGTAGCAGAAGGTCAAGAAATTT

FIGURE 1 (CONT'D)

GTGTGATTGAAGCCATGAAAATGCAGAATAGTATGACAGCTGGGAAAACCTGGCACGGTGA
AATCTGTGCACTGTCAAGCTGGAGACACAGTTGGAGAAGGGGATCTGCTCGTGGAGCTGG
AATGAAGGATTTATAACCTTT CAGTCATCACCCAATTTAATTAGCCATTTGCATGATGCT
TTCACACACAATTGATTCAAGCATTATACAGGAACACCCCTGTGCAGCTACGTTTACGTC
GTCATTTATTCCACAGAGTCAAGACCAATATTCTGCCAAAAAATCACCAATGGAAATTTT
CATTGATATAAATACTTGTACATATGATTTGTACTTCTGCTGTGAGATTCCCTAGTGTCA
AAATTAAATCAATAAACTGAGCATTGTCT

Gene 38. >ENST00000257302 cDNA sequence

ATTTACCTT CACGCTGGAGCCAAGATCGCTGCGGGGAGTCCCCTGAAGCACCACTGCCCT
CTAAGACCTTGGAAAGGGGAAACACCAGAAGGTGTGGGTGCTGAGCTCCGCTGCGTCAGAC
TGCCAGGACCTGAGTGGAACTCAGTGCTGAAACCTGGGTTCTCACTGCAGCTGGATAGCA
GCTCTGCCCCGATGGCCCTAGTCTTCGTGTACGGCACCCCTGAAGCGGGGTGAGCCCAACC
ACAGGGTCTGCGGGACGGCGCCACGGCTCCGCAGCCTTTGCGGCGCGCGGCGCACGC
TGGAGCCCTACCCGTTGGTGATCGCGGGGAGCACAAATCCCGTGGCTGCTGCACCTGC
CCGGCTCGGGGCGCCTCGTGGAGGGCGAGGTCTACGCGGTAGACGAGCGGATGCTGCGCT
TTCTGGATGACTTCGAGAGTTGCCCGGCCCTGTACCAGCGCACGGTGCTGCGGGTACAGC
TGCTGGAGGACCGGGCCCCGGGCGCAGAGGAGCCGCCAGCGCCACCGCGGTGCAGTGCT
TCGTGTACAGCAGGGCCACCTTCCCGCCGGAGTGGGCCAGCTCCCGCACCATGACAGCT
ACGACTCCGAGGGGCGCACGGGCTGCGCTACAACCCCCGGGAGAACAGATAAGGGGGAC
GGG CAGGGTGGGCCTAGGTTTGAGAGCCCTGGGGCTCCAAGATGCGCCAGCCCATGCTG
GGTGAAGGCGGAAGCCGAACAGGGCCCTTTCCAATGAATCTGCCGAAAGGAACCAATCT
TTCAGTGGCAGCTGATTTTACAAATAATGTTGAGATACGAATAGCAAGGTGCTTCCCTCC
CATCTTTCTACCTGGTAAGAAAAATTTAGGATTTTAACTCCCCTAAATGACATTTAGAGA
ACTCGTGTTATGCCTAATTCTTCTTCCCTCCTCGTGTTGTTTCTGCTGTTGGCTCTGCTTT
GAGCTCAAGATAATAATAAATATTTAGGATCAGTGTAAGACTTGGTGTTGCCGCTAGAT
TTTAGCAGCCCTACTATACTGATTCTGGCCTGTAACCCCTGAGAAAGCCGATTTTACACG
GCTGGGTAGAATTTGTAGAAAAGATCCACAGGGCAAGCATGCTGTATATCAGAGTGCCTA
TAGCACCATTCTTCTAATTTTTCAGATCAAGCTTCACAGCAAATATTAAAGATTATTTAA
ATTTGAAGTCGATGTTTTTGGGAAATC

Gene 39. >ENST00000245316 cDNA sequence

ATGACAAAGAAAAGAAGGAACAATGGTTCGTGCCAAAAGGGCCGCGGCCACGTGCAGCCT
ATTCGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAACGCCATTAAGAAATTCGTC
ATTCGAAACATAGTGGAGGCCGAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGAT
GCCTATGTGCTTCCCAAGCTGTATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCAC
AGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCCGCAAGGACCGAACACCCCCACCTCGA
TTTAGACCTGCGGGTGCTGCCCCACGTCCCCCACCAAAGCCCATGTAA

Gene 40. >ENST00000319015 cDNA sequence

ATGGCCTCAGGTAATGCGTGATGGGAAAGCCTGCCCCCTAACTTCAAGGCCACATCCATG
GTGGATGGCGCCTTCAAAGAGGTGAAGCTGTGAGCTACAAAGGGAAGTACGTGGTCCTC
TTTTTCTACCCTCTGGACTTCACTTTTGTGTGCCCCACGGAGATCACTGCAGTCAGCAGC
CATGCCGAGGACTTCCGCAAGCTGGGCTGCGAAGTGCTGGGCATCTTGGTGGACTCTCAG
TTCACCCACCTGGCTTGGATTAAACATCCCCCGGAAGGAGGGAGGCTTGGGCCCCCTGAAC
ATCCCCCTGCTTGCTAATGTGGCATCTGAGGATTACGGTGAGCTGAAAACAGATGAGTGC
ATTGCTACTGGGGCCTCTTTATCATTGATGGCAAGGTGTCTTTGCCAGATCACTGTT
AATGATTTGCCTGTGGGACGCTCATTGGATGAGGCTCTGCAGCTGGTCCAGACCATCCAG
TACACGGACGAGCACAGGGAAGTTTGTCTGCTGGCTGGAAGCTTGGCAGTGACACAATT
AAGCTCAACGTGGATGACGGCGAGGAATATTTCTCCAAACAAAATTAG

Gene 41. >ENST00000261628 cDNA sequence

CGCCGCCTTTTACGCACGTGCGGAGCTAACGGACTCGGCGGCGGCGGCGGCGGCGCT
GCGCCCCACCCGCACCCCATCTGGACCGCATCGCTGAATGTGCCCGGACCTGCGCCTTCT
GGGTCTCTGAAAGAAGATGAATTTGGCTGAGATTTGTGATAATGCAAAGAAAGGAAGAGA
ATATGCCCTTCTTGGAAATTACGACTCATCAATGGTATATTACCAGGGGTGATGCAGCA
GATTCAGAGACATTGCCAGTCAGTCAGAGATCCAGCTATCAAAGGCAAATGGCAACAGGT
TCGGCAGGAATTATTGGAGGAATATGAACAAGTTAAAGTATTGTGAGCACTTTAGAAAG

FIGURE 1 (CONT'D)

TTTTAAATTGACAAGCCTCCAGATTTCCCTGTGTCCTGTCAAGATGAACCATTTAGAGA
TCCTGCTGTTTGGCCACCCCTGTTCCCTGCAGAACACAGAGCTCCACCTCAGATCAGGCG
TCCCAATCGAGAAGTAAGACCTCTGAGGAAAGAAATGGCAGGAGTAGGAGCCCGGGACC
TGTAGGCCGAGCACATCTATATCAAAGAGTGAAAAGCCTTCTACAAGTAGGGACAAGGA
CTATAGAGCAAGAGGGAGAGATGACAAGGCAAGATGCTGTCTTTCTGGAAGGAAGAATAT
GCAAGATGGTGCAAGTGATGGTGAAATGCCAAAATTTGATGGTGCTGGTTATGATAAGGA
TCTGGTGGAAGCCCTTGAAAGAGACATTGTATCCAGGAATCCTAGCATTATTGGGATGA
CATAGCAGATCTGGAAGAAGCTAAGAAGTTGCTAAGGGAAGCTGTTGTTCTTCCAATGTG
GATGCCTGACTTTTTCAAAGGGATTAGAAGGCCATGGAAGGGTGACTGATGGTTGGACC
CCCAGGCACTGGTAAACTATGCTAGCTAAAGCTGTTGCCACTGAATGTGGTACAACATT
CTTCAACGTTTTCGTCTTCTACACTGACATCTAAATACAGAGGTGAATCTGAGAAGTTAGT
TCGTCTGTTGTTTGAGATGGCTAGATTTTATGCCCCTACCA CGATCTTCATTGATGAGAT
AGATTCTATCTGCAGTCGAAGAGGAACCTCTGATGAACATGAGGCAAGTCGCAGGGTCAA
GTCTGAAGTCTCATTGATGGATGGAGTTGGAGGAGCTTTAGAAAATGATGATCCTTC
CAAAATGGTTATGGTATTGGCTGCTACTAATTTCCCGTGGGACATTGATGAAGCTTTGCG
AAGAAGGTTAGAAAAAAGGATATATATACCTCTCCCAACAGCAAAAGGAAGAGCTGAGCT
TCTGAAGATCAACCTTCGTGAGGTGCAATTAGATCCTGATATTCAACTGGAAGATATAGC
CGAGAAGATTGAGGGCTATTCTGGTGCTGACATCACTAATGTTTG CAGGGATGCCTCTTT
AATGGCAATGAGACGGCGTATCAATGGCTTAAGTCCAGAAGAAATCCGTGCACCTTTCTAA
AGAGGAACCTTCAGATGCCTGTTACCAAAGGAGACTTTGAATTGGCCCTAAAGAAAATTGC
TAAGTCTGTCTCTGCTGCAGACTTGGAGAAGTATGAAAAATGGATGGTTGAATTTGGATC
TGCTTGAATTTCTGTGAGCTCTTTAATTTCTGGTATTTTTGTTGATAAAATACGAAGAAA
TTCCTGCAATTTTT

Gene 42. >ENST00000255486 cDNA sequence

CGGAAACATGAGAGAGGACTATCATCTGCTCCTTGCTCTGAATTTCTTTGAACCTCCATG
CTGGAACCCCTCCTCAGTTCTCCATGCAAACGTTAACCAGGCCCCCTTTGTGGTGCTTGGTG
CTGCGCTGGTG CAGAGAATGCAAAGACACTGTCTGTGGTGGGAAACAGAAAAGCAGAGTG
AACCACACATTCCAGCGCCGGGAAATTGAGGCAAAAGAAGCATGTGACTGGCTCCGTGCT
GCCGGGTTCCCGCAATACGCTCAGTTATATGAGGATTCACAATTTCCCATCAACATTGTG
GCTGTCAAGAATGATCATGATTTTCTTGAAAAGGACCTTGTAGAACCTCTTTGCAGACGA
CTAAATACGTTGAACAAGTGTGCCTCAATGAAACTTGATGTGAACTTCCAAAGGAAAAAG
GGTGACGACTCCGATGAGGAAGATCTTTGTATCAGCAACAAATGGACTTTCCAAAGAACC
AGTCGCAGGTGGTCTCGTGTGGACGACCTCTACACGCTGCTCCCTCGAGGAGACAGAAAT
GGGTCAACGGGAGGCACGGGGATGAGGAACACGACCAGCAGTGAGAGCGTCCCTCACAGAC
CTGAGCGAGCCTGAGGTCTGCTCCATTACAGCGAAAGCAGTGGAGGCAGCGACAGTCGC
AGCCAGCCGGGCCAGTGCTGTACAGACAACCCGGTCATGCTGGATGCCCCACTCGTCAGC
AGCAGCCTCCCAAGCCCCCAGAGATGTCTCAACCAACCCCTTCCACCCCAAGAATGAG
AAGCCACAGAGGGCTAGGGCCAAATCATTTTTGAAACGCATGGAAACACTCCGAGGGGAAG
GGAGCCACGGGAGGCATAAGGGGTCTGGGCGGACAGGTGGCCTGGTGATCAGTGGGCCC
ATGTTGCAGCAGGAGCCAGAGTCTTTAAGGCTATGCAGTGCATCCAAATACCAAATGGA
GATCTCCAGAATTGCGCGCCACCTGCCTGCAGAAAAGGGCTCCCATGCTCTGGCAAGTCG
AGTGGCGAGAGCAGCCCGTGGGAGCACAGCAGCAGCGGGGTGAGCACGCCCTGCCTGAAG
GAACGCAAGTGCCACGAGGCCAA CAAGCGCGGGGGCATGTA CTGGAGGACCTAGATGTG
CTGGCGGGGACAGCACTGCCGGATGCAGGGGACCAAAGCCGTATGCATGAATTTCACTCC
CAAGAGAATTTGGTGGTGATATTCCCAAGGATCACAAACCAGGAACATTCCCCAAGGCA
CTTTCTATTGAAAGCCTCTCTCCACAGATAGTAGCAATGGGGTTAATTGGAGGACCGGT
AGCATCTCCCTGGGCAGAGAGCAGGTCCCTGGTGCCAGGGAGCCCCGGCTCATGGCGTCC
TGCCACAGAGCCAGCCGAGTCAGTATCTATGACAATGTCCCTGGCTCCCATCTGTATGCC
AGCACAGGAGATCTTTTGACTTGGAGAAAGATGACCTTTTCCCTCACTTGGATGACATT
CTGCAGCATGTCAATGGGCTCCAAGAGGTAGTCGATGACTGGTCCAAAGATGTCTTGCT
GAACTGCAAACTCATGATACATTGGTTGGGGAACCTGGCTTATCCACCTTTCCATCTCCT
AATCAGATCACCTTAGATTTTGAAGGTAACCTGTCTCAGAAGGTGGGACGACACCCAGT
GATGTGGAAGAGATGTAAACATCTCTTAATGAATCTGAGCCTCCTGGGGTCAGAGACAGG
AGGGATTCTGGTGTAGGGCCTCTCTGACCAGGCCAAACAGGCGACTCCGATGGAACAGT

FIGURE 1 (CONT'D)

TTCCAGCTGTGCGACCAGCCCCGGCCGGCCCCAGCATCGCCCCACATCAGCAGCCAGACG
 GCCAGCCAGCTGAGCCTGCTCCAGCGCTTCTCACTGCTCCGCCTCACGGCCATCATGGAG
 AAGCACTCCATGTCCAACAAGCACGGCTGGACATGGTCAGTTCCAAAGTTCATGAAGAGG
 ATGAAAGTTCCCGACTACAAAGACAAGGCTGTCTTTGGCGTTCTCTCATAGTCCACGTC
 CAAAGAACGGGACAGCCCCCTGCCTCAAAGTATTAGCAAGCACTGAGATATCTACGCAGC
 AACTGCCTCGATCAGGTGGGTCTTTTTCGCAAATCAGGAGTGAAGTCTCGAATCCATGCC
 CTTCGCCAAATGAATGAAAACCTTCCCTGAGAACGTCAACTATGAAGACCAGTCTGCTTAT
 GATGTGGCGGATATGGTGAAACAGTTCCTCCGGGACCTCCCTGAGCCTCTTTTACCAAC
 AAGCTCAGTGAGACCTTTCTCCATATCTATCAGTATGTCTCAAAGAGCAGCGGCTGCAG
 GCCGTGCAGGCTGCCATCCTGCTACTGGCCGATGAGAACAGGGAGGTCTGCAGACGCTC
 TTGTGTTTTCTGAACGACGTGTCGTAACCTGGTGGAAGAGAATCAGATGACGCCCATGAAC
 CTGGCAGTGTGTCTGGCCCCCTCCCTCTTTTATCTTAATTTATTGAAGAAAGAAAGCTCT
 CCACGAGTCATACAGAAGAAATATGCCACTGGGAAGCCAGATCAAAGGACCTCAACGAG
 AATCTGGCAGCAGCTCAGGGGCTAGCGCACATGATCATGGAATGCGACAGACTTTTTGAG
 GTTCCACACGAGTTGGTGGCCAGTCTCGTAACTCGTATGTGGAGGCTGAGATCCACGTG
 CCAACCTGGAAGAATTGGGGACACAGCTGGAGGAGAGTGGGGCACTTTCCACACTTAC
 CTGAACCATCTCATCCAGGGCCTCCAGAAAGAAGCCAAGGAGAAGTTCAAAGGATGGGTCT
 ACGTGCTCCAGCACGGACAATACAGATCTTGCTTTCAAAGGTTGGGCGACGGGAACCCG
 CTGAAGCTGTGGAAGGCTTCTGTGGAGGTGGAAGCACCCCCCTCAGTGGTCTGAACCGC
 GTGCTGAGAGAGCGCCACCTGTGGGACGAGGACTTTGTGCAGTGAAGGTTGTGGAACT
 CTAGACAGGCAAAACAGAGATCTACCAGTATGTGCTGAACAGCATGGCTCCCATCCTTCC
 AGAGACTTTGTGGTTCTCAGGACCTGGAAAACCTGATTTGCCAAAGGAATGTGTACCCTG
 GTGTCCCTCTCCGTGGAGCATGAGGAAGCCAGCTCCTGGGTGGTGTGCGAGCAGTGGTG
 ATGGACTCGCAGTACTTGATAGAACCCTGTGGCTCTGGCAAGTCAAGACTGACTCACATC
 TGCAGGATAGACCTGAAAGGTCACTCCCCAGAATGGTACAGCAAAGGCTTTGGACATCTG
 TGTGCAGCAGAAGTTGCCAGGATTAGAACTCTTTCCAGCCCCTCATTGCTGAGGGCCCA
 GAAACTAAATCTGAGTTTTGCCCAGTGTGACATCAAACCTCAGGGAAGAGGAAGCTAAAG
 TGACGAGTGTGGCAGAGAGTGTGCATGTGAGAAAGCGAGAGAAAGAGGAACTGAAGGACG
 CGGTTAATGCCTAAAAATGGAACGTTAAGAAGTTGGAATGTTGGAGATGCAAGAATTTT
 CAAGAACCTTTCTTAGCCTTCTGGAGATGGCTACATCCCTACTAATATAATTTTAAATG
 AGAACCTTTATATATATTACTTAAATTAATGACTATTCTTGTGCATTGCCTAATTTG
 CTATTTAAAGGCTTCTAAGAAGCGTATACCTAACTGTAAATAAATGTATGTATAGCATAT
 GTACATATGTGTGTATATCTCCATCTTTACTGTATATATGTAAATAACCAATTTTATATA
 GAATTGTGTGTTTTGAAAATGACGGTGTCTGACTCAGTGAGTCCCTTCTCACACAGTTC
 TTTCAAAGTGGCTCTGGGCCCCATCTCTCCACTGTCTGTAAGCTGTGCAGAACCTGCTG
 CTAACACCAAGGTGTGAACATGCCCTGATGCCTAACCAAAGATGAGTTAACCAAAGGAAA
 ATAACATTAAAGGAGACTTATGTGTTAACGCTTTGTTTCTGCTATTCAAAAACCTGAGAGT
 GGAGATCTGGGATAAAGCAAGGAAATAATAATTACTCCTCCTTAAAGCAAATGGGGGGGT
 GAGAAGTCATTACCAAATTTAAAGCTAGATGAGGAGTTGCCACTGGGCCCAGTAAGATGG
 AATTTCAAGTGAGATATGGACCACCGGAGTCAGCGAGAGTGAAGTGAACAGAGCGATAAC
 TCTCGCTCCCATGCCCATCACTACAGACCCCAAGTCAAGATGAATATCATAGCCTTTACT
 TCTTCACAGCCAAAGGGAGCCCCCTGTGTTGTCTCAAGTTTTTATAAATACATTTTATAAT
 GTTATTAAATGTCAATCTATTTGACCAGTGGCCTATTTGGTCAAGTTAATTGGTGTGTTT
 CTATTGCACTGAATTCAACTCCAGACACCATACAAAGGGAGATGATGGCCATTCCGTTT
 AAATCCTAGATCGTTACAGCTTCAGGGAATTCATATTTTGTTATGTGTAGGATACTCTTA
 AAATGTAATTCATTAAACTTTTACAATCTGAAAGACAGGGTTTTTAACTAACATGAGACC
 AAACTATGTTCTTTGATTAGTTTTAGATAGTATAATCGGGTTTTATTAATTTCTTCTGTGT
 TTCTTCACTAGCCAGTCCAAGCTACCTATGCATTTGACCCAACCTTATTTATTATTGTAC
 AGATGAAGCGAATTGACTCCCTTTAGCCAACCTGCTAATGGATCGAATGTGCTTTTTATTG
 TAATTCAACAGCTATAGAGAGAAAGATAACTTATTGTGTGTTTGATTTCAGGGAGAGAGA
 TTTTCTTTGGTCATCCATAATAGAGATTGATAAGATTTAGCAACTGGTGTGGAGAAAAA
 AAGAAAAGCAAATGAGTGTGTTTTCAGGTTTTTTTGCATTATATGCATTTATGTAATGTTT
 TGTTATCAGCAATGTGCAATTATTTTATTGAGAGGAATAAAAAAGCTTTCTATGAGTTTG
 GTATGGTGCAGGAAATCTTACAGTTTGAATTATGACCTAGAAATTTTTTCAATCCCAT

FIGURE 1 (CONT'D)

TCTACCTAAGAAGGAAGCAGTAAATCCATAATTTACCTTTTGGGCAATGCTTTGTGAGCA
AAACAAAGTCACTTCTGCCATAACATCTTGAATTTAACCATATATGCCAGATTACTTTAT
ATGCATCAACAAGATCACCAAGTGAAGTTTAATCTAGCTAAACACTGGTCCTGCTCCTGAG
ATGGGATCCTATGTGTTTGGAAAACGTGATAGGCACACGAGGATGAGTGGCTTTGTATCG
CCCAGAGAGGTGCTTGTCCAGATTTTACATGCACATGAATTGCCTGGGGATCTTGTGAAA
CTGCAGACTCTGCTCCAAGTAATCTGGGCTGGGCCTGAGATTCTGCATTTCTAAGGAGTC
TCAGGGATGCCTATGCTGCTGGCCTAAAACCACTCAGAAACGAGGACCTAGAAGATCC
CTAAACAGAATAAGAACAAATGTGATTGTATTTCTGATTCTCCCTCTCTTCAATTATC
TGACTTTTTTTGTTTTTGTGCACATAGTAATCATATCACCGCTGCATAACAACACAGTGCA
TCTTTTTTAAAAACAAGGAAAAGGGAAAAAAGGAGAAAAACGATGCATCAAGCTTGTGTTG
TCAAATACCACAGTATTTTATTATTGTTATCTTGCCAATGGAAATAAAGTATGATATTG
CATTTAAATATTATATTTTATACCTCATGTATATTTTTTACCTCAATTGTTGATATCAATCA
TCAATTGTAAATAAATAATTGCCAAGGCAAATAAATTT

Gene 43. >ENST00000310336 cDNA sequence

AGCGCCGGAGCGGGCCGGGCTGAGGCGCAGGCGGGGAGCGGGCCCGCGCGCGCGCTG
GTGGATGCTGGGGCTCCGAGGCGACGGCCGGGGGGCGGGGGCCGAGGCAGGTATAACGGT
ACCGGCGGCGGCGAGCGCCGCTGCTCTTCCCTTCTCCTCAGGAGGGGGGCAATGGCTAGC
GAGAAGCCGGGCCCCGGGCCCCGGGGCTCGAGCCTCAGCCCGTGGGGCTCATTGCCGTCGGG
GCCGCTGGCGGAGGCGGCGGGGGCAGCGGTGGTGGCGGCACCGGGGGCAGCGGGATGGGG
GAGCTAAGGGGGGCGTCCGGCTCCGGCTCGGTGATGCTCCCCGCGGGGATGATTAACCTT
TCGGTGCCGATCCGCAACATCCGGATGAAATTGCGAGTGTTGATTGGACTCATAAGGTC
GGAGAGGTGAGCAACAGGGACATCGTGGAGACGGTGCTCAACCTGCTGGTTGGTGGAGAA
TTTGACTTGGAGATGAACTTTATTATCCAGGATGCTGAGAGTATAACATGTATGACAGAG
CTTTTGGAGCACTGTGATGTAAATGTCAAGCAGAAATATGGAGCATGTTTACAGCCATT
CTACGAAAAAGTGTTTCGGAATTTACAGACTAGCACAGAAAGTTGGGCTAATTGAACAAGTA
TTGCTGAAAATGAGTGCTGTAGATGACATGATAGCAGATCTTCTAGTTGATATGTTGGGG
GTTCTTGCCAGCTACAGCATCACTGTCAAGGAGTTGAAGCTTTTGTTCAGCATGCTTCGA
GGAGAAAGTGGAATCTGGCCAAGACATGCAGTAAATTATTATCAGTTCTTAATCAGATG
CCACAGAGACACGGTCTGATACCTTTTTTCAATTTCCCTGGTTGTAGCGCTGCGGCAATT
GCCTTGCCCTCCTATTGCAAAGTGGCCTTATCAGAATGGCTTCACCTTAAACACTTGGTTT
CGTATGGATCCATTAAATAATATTAATGTTGATAAGGATAAACCTTATCTTTATTGTTTT
CGTACTAGCAAAGGAGTTGGTTACTCTGCTCATTTTGTGGCAACTGTTTAATAGTCACA
TCATTGAAGTCCAAAGGAAAAGGTTTTTCAAGCATTGTGTGAAATATGATTTTCAACCACGC
AAGTGGTACATGATCAGCATTGTCCACATTTACAATCGATGGAGGAAACAGTGAAATTCCG
TGTATGTTAATGGACAACCTGGTATCTTATGGTGATATGGCTTGGCATGTTAAACAAAT
GATAGCTATGACAAGTGCTTTCTTGGATCATCAGAACTGCTGATGCAATAGGGTATTCT
TGTGGTCAACTTGGTGCCGTGTATGTGTTCAAGTGAAGCACTCAACCCAGCACAGATATTT
GCAATTCATCAGTTAGGACCTGGATATAAGAGTACCTTCAAGTTTAAATCTGAGAGTGAT
ATTCATTTGGCAGAACATCATAAACAGGTGTTATATGATGGGAACTTGCAAGTAGCATT
GCCTTTACATATAATGCTAAGGCCACTGATGCTCAGCTCTGCCTGGAATCATCACAAAA
GAGAATGCATCAATTTTTGTGCATTCCCCACATGCTCTAATGCTTCAGGATGTGAAAGCG
ATAGTAACACATTCAATTCATAGTGCAATTCATTCAATTGGAGGGATTCAAGTGCTTTTT
CCACTTTTTTGCCCAATTGGATAATAGGCAGCTCAATGACAGTCAAGTGGAAACAACCTGTC
TGTGCTACTCTGTTGGCATTCTCTGGTTGAACTACTTAAAGTTCAAGTAGCCATGCAAGAA
CAGATGCTGGGTGGAAAAGGCTTTTTAGTCATTGGCTACTTACTTGAAAAGTCATCAAGA
GTTTCATATAACTAGAGCTGTCTGGAGCAATTTTTATCTTTTGCAAAATACCTTGATGGT
TTATCTCATGGAGCACCTTTGCTGAAGCAGCTTTGTGATCACATTTTATTTAACCAGCC
ATCTGGATACATACCTGCAAAGGTTTCAAGCTTTCCCTATACACATATTTGTCTGCTGAA
TTTATTGGAAGTGTACCATCTACACCACCATACGCAGAGTAGGAACAGTATTACAGCTA
ATGCACACCTTAAATATTACTACTGGGTATTAAATCCTGCTGACAGTAGTGGCATTACA
CCTAAAGGATTAGATGGTCCCCGGCCATCAAAAAAGAAATTATATCACTGAGGGCATT
ATGCTACTTTTTCTGAAACAGCTGATACTAAAGGATCGAGGGGTCAAGGAAGATGAAGTT
CAGAGTATATTAAATTACCTACTTACGATGCATGAGGATGAAAATATTATGATGTGCTA
CAGTTACTGGTGGCTTTAATGTGGAACACCCAGCCTCAATGATACAGCATTGATCAA

FIGURE 1 (CONT'D)

AGAAATGGAATAAGGGTGATCTACAAATTATTGGCTTCTAAAAGTGAAAGTATTTGGGTT
CAAGCTTTGAAGGTTCTGGGATACTTTCTGAAGCATTAGGTACAAGAGAAAAGTTGAA
ATTATGCACACCCATAGTCTTTTCACTCTTCTTGAGAAAGGCTGATGTTGCATACAAAC
ACTGTGACTGTCAACACATACAAACACTTTATGAGATCTTGACAGAACAAGTATGTACT
CAGGTCGTACACAAACCACATCCAGAGCCAGATTCTACAGTGAAAATTGAGAATCCAATG
ATTCTTAAAGTGGTGGCAACTTTGTTAAAAAACTCTACACCAAGTGAGAGCTGATGGAA
GTTCGTCGTTTTATTTTTATCTGATATGATAAACTTTTCAGTAACAGCCGTGAAAATAGA
AGATGCTTATTGCAGTGTTGAGTGTGGCAGGATTGGATGTTTTCTCTTGGCTATATCAAT
CCTAAAAATTCTGAGGAACAGAAGATTACCGAAATGGTCTACAATATCTTCCGGATTCTT
TTGTATCATGCAATAAAATATGAATGGGGAGGCTGGAGAGTCTGGGTGGATACCTCTCA
ATAGCCCATTTCAAGGTCACTTATGAAGCTCATAAGGAATACCTAGCCAAAATGTATGAG
GAATATCAAAGACAAGAGGAGGAAAACATTAAAAAGGGAAAGAAAGGGAATGTGAGCACC
ATCTCTGGTCTTTTCATCACAGACAAAGGAGCAAAAGGTGGAATGGAAATTCGAGAGATA
GAAGATCTTTACAAAGCCAGAGCCCAGAAAGTGAGACCGATTACCTGTGAGCAGAT
ACTCGAGACTTACTCATGTCAACAAAAGTGTGAGATGATATTCTTGAAATTCAGATAGA
CCAGGAAGTGGTGATCATGTGGAAGTACATGATCTTTTAGTAGATATAAAAGCAGAGAAA
GTGGAAGCAAAGAAAGTAAAGCTCGATGATATGGATTATCACCGGAGACTTTAGTAGGT
GGAGAGAATGGTGCCCTTGTGGAGGTTGAATCTCTGTTGGATAATGTATATAGTGCTGCT
GTTGAGAACTCCAGAACAATGTACATGGAAGTGTGGTATCATTAAAAAAATGAAGAA
AAGGATAATGGTCCATTGATAACATTAGCAGATGAGAAAGAAGACCTTCCAATAGTAGT
ACATCATTTCTCTTTGATAAAATACCCAAACAGGAGGAAAACTACTTCCTGAACCTTCT
AGCAATCACATTATTCCAAATATTGAGGACACACAAGTACATCTTGGTGTTAGTGATGAT
CTTGGATTGCTTGCTCACATGACCGGTAGCGTAGACTTAACTTGACATCCAGTATAATA
GAAGAAAAAGAATTCAAAATCCATACAACTTCAGATGGAATGAGCAGTATTTCTGAAAGA
GACTTAGCGTCATCAACTAAGGGGCTGGAGTATGCTGAAATGACTGCTACAACTCTGGAA
ACTGAGTCTTCTAGTAGCAAAATTTGTACCAAATATTGATGCAGGAAGTATAATTTTCAGAT
ACTGAAAGGTCTGACGATGGCAAAGAATCAGGAAAAGAAATCCGAAAAATCCAAACAAT
ACTACGACACAAGCTGTGCAGGGTCTGCTATCACCCAACAAGACCGAGATCTCCGAGTT
GATTTAGGATTTTCGAGGAATGCCAATGACTGAGGAACAGCGACGCCAGTTTAGCCCAGGT
CCACGGACTACAATGTTTTCTGATTCTCTGAGTTTAAATGGTCTCCAATGCACCAGCGGCTT
CTCACTGATTTACTATTTGCAATTAGAACTGATGTACATGTTTGGAGGAGCCATTCTACA
AAGTCTGTAATGGATTTTGTCAATAGCAATGAAAATATTATTTTTGTACATAACACAATT
CACCTCATTTCCCAAATGGTAGACAACATCATCATTGCTTGTGGAGGAATTTTACCTTTG
CTCTCTGCTGCTACATCACCAACTACGGAATTGGAAAATATTGAAGTGACACAAGGCATG
TCAGCTGAGACAGCAGTAACTTTCTCAGCCGGCTGATGGCTATGGTTGATGTACTTGTG
TTTGCAAGCTCTCTAAATTTTAGTGAGATTGAAGCTGAGAAAAACATGTCTTCTGGAGGT
TTAATGCGACAGTGCCTAAGATTAGTTTGTGTTGCTGTGAGAACTGTTTAGAATGT
CGGCAAAGACAGAGAGACAGGGGAAATAAATCTTCCCATGGAAGCAGTAAACCTCAGGAA
GTTCTCTCAAAGTGTGACTGCTACAGCAGCTTCAAGACTCCATTGGAAAATGTTCCAGGT
AACCTTTCTCCTATTAAGGATCCGGATAGACTTCTTCAGGATGTTGATATCAATCGCCTT
CGTGCTGTTGTCTTTCGGGATGTGGATGATAGCAAACAAGCACAGTTCTTAGCTCTGGCT
GTTGTTTACTTCATTTTCGTTCTGATGGTTTCCAAGTATCGTGACATATTAGAACCCCAG
AGAGAGACTACAAGAACTGGAAGCCAACCAGGTAGAAACATCAGGCAAGAAATAAATTCA
CCAACAAGTACAGTTGTGGTCATACCATCTATCCCTCATCCAAGTTTGAACCATGGATTCT
CTTGCCAAGTTAATTCTGAGCAGAGCTTTGGCCACTCATTTTACAAAGAAAACCTGCT
GCATTTCCAGACACCATAAAAGAAAAAGAAACACCAACTCCTGGTGAAGATATTGAGTA
GAAAGTTCAATTTCCCATACAGATTGAGGAATTGGAGAGGAGCAAGTGGCTAGCATCCTG
AATGGGGCAGAATTAGAAACAAGTACAGGCCCTGATGCCATGAGTGAACCTTTATCCACT
TTGTATCCGAAGTGAAGAAATCACAAAGAGAGCTTAACTGAAAATCCTAGTGAAACGTTG
AAGCCTGCAACATCCATATCTAGCATTAGTCAAAACCAAGGCATCAATGTGAAGGAAATA
CTGAAAAGTCTTGTGGCTGCTCCAGTTGAAATAGCAGAATGTGGCCCTGAACCTATCCCA
TACCAGATCCAGCATTGAAGAGAGAAAACAAAGCTATTCTTCTATGCAGTTTCATTCC
TTTGACAGGAGTGTGTGGTGCCTGTAAAGAAACCACTCCAGGTAGTTTAGCTGTAACC
ACTGTGGGAGCCACTACTGCTGGAAGTGGGCTGCCAACAGGCAGTACCTCTAATATATTT

FIGURE 1 (CONT'D)

GCTGCTACTGGAGCTACACCAAAAAGTATGATTAATACAACAGGTGCCGTGGATTTCAGGG
TCCTCCTCCTCTTCCTCCTCTTCTAGTTTTGTGAATGGTGCTACTAGCAAAAACCTTCCA
GCTGTACAAACTGTTGCTCCAATGCCAGAAGATTGAGCTGAAAATATGAGCATCACTGCA
AACTTGAAAGAGCGTTAGAAAAAGTTGCTCCTCTTCTTCTGTAATTTTTGTAGACTTT
GCCCCATTCTATCTCGTACACTTCTTGGCAGTCATGGACAAGAGCTATTGATAGAAGGC
CTTGTTTGTATGAAGTCCAGCACATCTGTGGTTGAGCTTGTTATGCTGCTTTGTTCTCAG
GAATGGCAAACTCTATTGAGAAGATGCAGGACTTGCATTTATTGAGCTCATCAATGAA
GGAAGATTACTGTGCCATGCTATGAAGGACCATATAGTCCGTGTTGCAATGAAGCTGAG
TTTATTTTTGAACAGACAAAGAGCCGAGGATGTACATAAACATGCAGAGTTTGAGTCACAG
TGTGCCCAATATGCTGCTGATAGAAGAGAGGAAGAAAAGATGTGTGACCATCTTATCAGT
GCTGCTAAACATCGAGATCATGTAACAGCAAAATCAGCTGAAAACAGAAGATTCTCAATATT
CTCACAAATAAACATGGTGCTTGGGGAGCAGTTTTCTCATAGCCAATTGCATGATTTCTGG
CGTTTGGATTACTGGGAAGATGATCTTCGTGCAAGGAGACGATTTGTTGCAATGCATTT
GGCTCCACTCATGCTGAAGCATTGCTGAAAGCTGCAATAGAATATGGCACGGAAGAAGAT
GTAGTAAAGTCAAAGAAAAACATTGAGAAGTCAAGCAATAGTGAACCAAAATGCAGAGACA
GAACTTATGCTGGAAGGAGACGATGATGCAGTCAGTCTGCTACAGGAGAAAGAAATTGAC
AACCTTGACAGGCCAGTGTTCTCAGCACCCCTGCCAGCTCATCGCTCCCGTGGTGGTG
GCCAAGGGGACTCTCTCCATCACCAGCAGACGAAATCTACTTCGAGGTAGATGAGGATGAT
TCTGCCTTCAAGAAGATCGACACGAAAGTTCTTGATACACTGAGGGACTTCACGAAAA
TGGATGTTGAGCAGATACGAGCTGTATTTTCAAGACGTTACCTTCTACAAAACACTGCT
TTGGAAGTATTTATGGCAAACCGAACCTCAGTTATGTTTAATTTCCCTGATCAAGCAACA
GTAAAAAAGTTGTCTATAGCTTGCCTCGGGTTGGAGTAGGGACCAGCTATGGTCTGCCA
CAAGCCAGGAGGATATCATTGGCCACTCCTCGACAGCTTTATAAATCTTCCAATATGACT
CAGCGCTGGCAAAGAAGGGAAATTTCAAACCTTGAATATTTGATGTTCTTAATACTATT
GCAGGACGGACATATAATGATCTGAACCAATATCCAGTGTTTCCGTGGGTGTTAACCAAC
TATGAATCAGAAGAGTTGGACCTGACTCTTCCAGGAACTTCAGGGATCTATCAAAGCCA
ATTGGTGCTTTGAACCCCAAGAGAGCTGTGTTTTATGCAGAGCGTTATGAGACATGGGAA
GATGATCAAAGCCCACCTTACCATTATAATACCCATTATTCAACAGCAACATCTACTTTA
TCCTGGCTTGTTCGAATTGAACCTTTCAACCTTCTTCTCAATGCAATGATGGAAAA
TTTGATCATCCAGATCGAACCTTCTCATCCGTTGCAAGGTCTTGGAGAACTAGTCAGAGA
GATACTTCTGATGTAAAGGAACTAATTCCAGAGTTCTACTACCTACCAGAGATGTTTGTC
AACAGTAATGGATATAATCTTGGAGTCAGAGAAGATGAAGTAGTGGTAAATGATGTTGAT
CTTCCCCCTTGGGCAAAAAAACCTGAAGACTTTGTGCGGATCAACAGGATGGCCCTAGAA
AGTGAATTTGTTTCTTGCCAACTTCATCAGTGGATCGACCTTATATTTGGCTATAAGCAG
CGAGGACCAGAAGCAGTTCTGTGCTCTGAATGTTTTTCACTACTTGACTTATGAAGGCTCT
GTGAACCTGGATAGTATCACTGATCCTGTGCTCAGGGAGGCCATGGAGGCACAGATACAG
AACTTTGGACAGACGCCATCTCAGTTGCTTATTGAGCCACATCCGCCTCGGAGCTCTGCC
ATGCACCTGTGTTTCTTCCACAGAGTCCGCTCATGTTTAAAGATCAGATGCAACAGGAT
GTGATAATGGTGCTGAAGTTTCTTCAAATTCTCCAGTAACCCATGTGGCAGCCAACACT
CTGCCCCACTTGACCATCCCCGAGTGGTGACAGTGAAGTGCAGCCGACTCTTTGCAGTG
AATAGATGGCACAAACAGTAGGCCTCAGAGGAGCTCCAGGATACTCCTTGGATCAAGCC
CACCATCTTCCATTGAAATGGATCCATTAATAGCCAATAATTGAGGTGTAAACAAACGG
CAGATCACAGACCTCGTTGACCAGAGTATACAAATCAATGCACATTGTTTTGTGGTAACA
GCAGATAATCGCTATATTCTTATCTGTGGATTCTGGGATAAGAGCTTCAGAGTTTATTCT
ACAGAAACAGGGAAATTGACTCAGATTGTATTTGGCCATTGGGATGTGGTCACTTGCTTG
GCCAGGTCCGAGTCATACATTGGTGGGGACTGCTACATCGTGTCCGGATCTCGAGATGCC
ACCCTGCTGCTCTGGTACTGGAGTGGGCGGCACCATATCATAGGAGACAACCTTAACAGC
AGTGACTATCCGGCACCAAGAGCCGTCTCACAGGCCATGACCATGAAGTTGTCTGTGTT
TCTGTCTGTGCAGAACTTGGGCTTGTATCAGTGGTGCTAAAGAGGGCCCTTGCTTGTGTC
CACACCATCACTGGAGATTTGCTGAGAGCCCTTGAAGGACCAGAAAACTGCTTATCCCA
CGCTTGATATCTGTCTCCAGCGAAGGCCACTGTATCATATACTATGAACGAGGGCGATTTC
AGTAATTTGAGCATTAAATGGGAACTTTTGGCTCAAATGGAGATCAATGATTCAACACGG
GCCATTCTCCTGAGCAGTGACGGCCAGAACCTGGTCAACGGAGGGGACAATGGGGTAGTA
GAGGTCTGGCAGGCCTGTGACTTCAAGCAACTGTACATTTACCCTGGATGTGATGCTGGC

FIGURE 1 (CONT'D)

ATTAGAGCAATGGACTTGTCCCATGACCAGAGGACTCTGATCACTGGCATGGCTTCTGGT
 AGCATTGTAGCTTTTAATATAGATTTTAATCGGTGGCATTATGAGCATCAGAACAGATAC
 TGAAGATAAAGGAAGAACCAAAGCCAAGTTAAAGCTGAGAGCACAAGTGCTGCATGGAA
 AGGCAATATCTCTGGTGGAAAAAAGCTCGTCTACATCGACCTCCGTTTGTACATTCCATCA
 CACCCAGCAATAGCTGTACATTGTAGTCAGCAACCATTTTACTTTGTGTGTTTTTTCACG
 ACTGAACACCAGCTGCTATCAAGCAAGCTTATATCATGTAAATTATATGAATTAGGAGAT
 GTTTTGGTAATTATTTTATATATTGTTGTTTATTGAGAAAAGGTTGTAGGATGTGTACA
 AGAGACTTTTGAACAATTCTGAGGAACCTTGTGTCCAGTTGTTACAAAGTTTAAGCTTTGA
 ACCTAACCTGCATCCCATTTCCAGCCTCTTTTCAAGCTGAGAAAAAAGGATGATGATGAT
 TTTGATACTTTGTACATCAGATGCATCTTATTTAAAAGGGATACTTTTGTAAAAGTAAAA
 CCTTGTATAAAGAACAATAATGTTTCTTAATTTTATTGTGGAGTTACAACCTGCATGTTCC
 TTAATCCTGTTGGCTTGTATGGAACAGGTGCATTCACTATGAAACAGAAAGATCTGTCC
 AAGGACACAGCTTGTATGAAAGGGTTGAATTTGGGCTCCATCAGTAATTTTGTACATTTT
 CACCAAAATATAGTTTGCACCTTTTAAATCTAAAGTCATCCCTTCTGAGTGAAATTTGCTC
 ATAAAGCATTGGATACTAAGCCATTATTTGCCATTTTGGGTACTTTATACAAAGAAAAT
 TCAGCCCTACCCTGCATAATTTGAAGACACAGCAGAAAGGGGGCTTAGGGATGAGGTCCT
 GGTTTTTCTTGTATAAATAGGAGTCATGGGCGTTAGTTCTGTAGTAATAACTTCCAGCA
 CCTGGACATCTCTCCAGAGTTATCCCACTGGCTTGGTGTGTATACATTAGGGGAGGATA
 ATCTGATGCTAACTTTTTTTTTCTCTTTGGTTCTTGAATAGCTTAGTTTCTTAATAACA
 AGTCAAACCTTTATTACAACAATAACTGAAGTTATTCTTTTAGGTTCTCGTGAATTTCTCA
 CTGAAAGCCACATTCTTAGCCTAAGGCATTTTATCTTTTATGATATAAAATGATGGCTAT
 CAAATGATTTTCCATACATTGTACTGATCAAGTTATACACCCAGGGGTATATACACTTTC
 TTCATGTTTCTTCTTTGTATATTTGGTGACTGTATCGTCATAGATGTACATATTGTGTCTG
 GTAGGGCTATGAGGCATGTTACAGGAATGTAATTTTCTCAGAATTTACACTCACTCGCAG
 TCATTTATTTAAAAAGATAAAACAAGATAATGGGTTCTTTGTATTGGCACTTTGCACCAG
 AAACATATCATTATTTATTGATGTGATTACTTATTTGTTATCCACCTTGTACTAGTAAGT
 TTTAGCACTGAATTCCTTCTTCACTGTTGTTTGTATTATGAAATTCTGAAATTATGGGG
 AATCAGCGTAATGATTAAGTTATTCATCACCAGGCTGTAAGCAATATCTTGAGTTTGTAG
 CTTAGAATTGGGAGGATACTTAACATCTGGAAGACAAGTTCAATTTATCTTGAGATCATG
 GTGAAATATTTTGGATATATAAATTCCTTAAGCTATTGTAACCATGTTTTATTGCAAAGA
 TGTAATATATGCCAGATGTGTGTGAGTTGGAAATCAAAAAAGAAAAATAAATATGCAA
 AGAATTC

Gene 44. >ENST00000333692 cDNA sequence

ATGGCAGAGCAAGAGCAAAGAAAAATCCCTTTGGTTCTAGAAAATCTGAAAAAGAGGAAG
 GCTTATCAAGCCCTCAAAGCCAATCAGGCAAAGCAGGCACTTTTAGCAAAGAAGGAGCAG
 AAGAAAGGAAAACAGCTCAGGTTTAAGCGACTGGAATCATTCCCTATATGATTCCCTCGTGG
 CAGAAACACGACAAGCTGCATCTCAGACAACCTAGAAGTGAAACCTCATGCCTTGAATTG
 CCAGATAAACATTCTTGGCCTTTGTTTTACGCATCCAAAGAATTAATGGTGTGACTTCA
 CTGGTGCAGAGAACCATTGCAAGACTTTGCCTGAAGAAAATTTTCAAGTGGTATCTTTGTA
 AAAGTCACCCCAAAGAGCAAAATGTTGCTTATAGTAGAACCTTATGTGAACTGGGGATTT
 CCACTAAAGTCTGTCCAAGAACTCATTTTGAAACATGAACAAGCCAAGGTCAAGAATGAG
 ACCATCCCTCTGACAGACAGCAAGCAATTGAGGAGCACCTGGGGGAGTTTGGTGTCAAT
 TGCCTGGGAGACCTCATAATGAAATTGCCTTCCAGGGAAAGTATTTCCAGGAGATCTCA
 TGGGTCTTGCACCTTTCCACCTCTCGGTGGCCCATCATGCTACCAAGAATAGAGTGGGC
 TTCCTCAAGGAGATGGCCTCACCTGGG

Gene 45. >ENST00000325028 cDNA sequence

GCACTTCAGCTTCCCTCCCTCCCGGCGCCCTCTGGGGCTCCGAGCCCGGCGGGACCATGTT
 CACCAGCACCGGCTCCAGTGGGCTCTACAAGGCGCCTCTGTGGAAGAGCCTTCTGCTGGT
 CCCAGTGCCCTCTCCCTCCTGCTCGCCCTCCTCCTGCCTCACTGCCAGAAGCTCTTTGT
 GTATGACCTTCACGCAGTCAAGAACGACTTCCAGATTTGGAGGTTGATATGTGGAAGAAT
 AATTTGCCTTGATTTGAAAGATACTTTCTGCAGTAGTCTGCTTATTTATAATTTTAGGAT
 ATTTGAAAGAAGATATGGAAGCAGAAAATTTGCATCCTTTTGTCTGGGTTCTGGGTTTT
 GTCAGCCTTATTTGACTTTCTCCTCATTGAAGCTATGCAGTATTTCTTTGGCATCACTGC
 AGCTAGTAATTTGCCTTCTGGATTCTGGCACCTGTGTTTGTCTGTGTTGTACCATTTTA

FIGURE 1 (CONT'D)

CTGCTCCATACCAAGAGTCCAAGTGGCACAATTCTGGGTCCGTTGTCCATCACAAACAA
GACATTGATTTATATATTGGGACTGCAGCTTTTCACCTCTGGTTCCTACATCTGGATTGT
AGCCATAAGTGGACTTATGTCCGGTCTGTGCTACGACAGCAAAATGTTCCAGGTGCATCA
GGTGCTCTGCATCCCCAGCTGGATGGCAAAATTTCTTTCTTGGACACTTGAACCCATCTT
CTCTTCTTCAGAACCCACCAGCGAAGCCAGAATTGGGATGGGAGCCACGCTGGACATCCA
GAGACAGCAGAGAATGGAGCTGCTGGACCGGCAGCTGATGTTCTCTCAGTTTGCACAAGG
GAGGCGACAGAGACAGCAGCAGGGAGGAATGATCAATTGGAATCGTCTTTTTCCTCCTTT
ACGTGAGCGACAAAAAGTAACTATCAGGGCGGTCCGACAGTCTGAGCCAGCAGCGCCCC
TCTAGAAGTTTCTGAGGAACAGGTGCCCCGGCTCATGGAGATGGGATTTTCCAGAGGTGA
TGCTTTTGAAGCCCTGAGAGCTTCAAACAATGACCTCAATGTGCCCCAACCTTCTGTCT
GCAGCACTGATAGTCCCAGGCCAACACTGGGACCGGACCGGCAGCCGAGTGACAGTGCGT
GGTCCCCACCATCAGATCAGCCCCGGGGACCGAGCATCTCTGGTGCTGATGTTCTTGTGGG
AAGAGGGAGGTTCCACCGCACCCCTGCCCTCAACCGCAAGACTGTTGCCGTTTTAGTGTG
GAGATAAGTTTGCCATTACATTAGCATGTATTTTCTATCTATATTTTTATTGGGCATTT
TCCCTAGGTTGGAGAGTCACTCGTTTTGAATGTGTTTAAATGCATTAAATGGAAG
ATTTCTGCAGGCAGTTGAATGGCACTCCAGATGGGAATTGCTGTAAACCTCTTACTGTA
ACATGTCTCTCCTGCGTCTGTGATGGGGAGAGGGTAATGTTACTTCACAAAGGACATGTC
AGATCCTTCTTCATGGACTTTTTTAGTTACTGTTTTTCTCTCAAACTGTGTTTCGAATC
TCTGGGAGTGAGGGAGAAACAGGGAGCTGAATCCTCCCCAAGCTGTTCCAGGCCAGAG
GACTCTGCAGTACCTTCTCCTACATCTAGTAACAAAGAATGGTGATAACCATGCACTGGT
TCAAGGTTCTGGAGTTCTCCATGAAACTTGGGTTAATTTTGCTCAGAGTATCCAGAGTTA
GCCACTAGGCTGCGGGTGAAATGGGATGGAGAAGAACACAGCAGGCTTCTGGAGCCAC
ATGGGCTGACTAGGGCACTCTGTGGCTGGCCTGGCATGGGCTCAGCCCAGGAAGAGGAGA
AACGATCCCTTGCTGCCCCCTCCTGTGGCAGGGCTAACTGCCTGGCCCTCCTGGCTCGC
AGCCAGCCAGCCCCCTGGCAGCAGGTTCTCCTCAGGGCTTGGGTCTTCAACCTGTGGCGA
CAGGAGGCAGGGCAGACTGTGGAGGACAGGATGCAGGTGAGGGAGAGGGAAGGCAGGGGT
GGACCGCCATGAGCATGAAAAGACCCGAAGCAAGTTGACTCTTGCAATGTGCAACTGTTA
TGTTCTGCAAAATGAGCAACGATGTATCAAATTGATGCAAAATTTAGATGTTGATACTTAC
AATAAAGTTTTTAATGTGT

Gene 46. >ENST00000257320 cDNA sequence

ATGTTTACCAGCACCGGCTCCAGTGGGCTCTGTGAGTACCGGCCTCCGCCATCCTGGCTG
CCCCCTACACGCCACCCTAGGCACCTCTTTGAGGAGGCTGGGGCAGCGGGGACCCCTCGGG
TTTGCCGGAGGTGGTGGGGCCGACCCCTCCAGACCCGCGTCCGAACCCCTGCTAGTTCCCGG
TCTTGGGGGTGAGCGGAAACCGCCCCCATTTCCGGCTGGAGGGGCGAATGGGGACAAAGC
CCCGCCGCCGCCCGACCCACCTGGTATCCCCAGGTGCTCTGCCCAGGAGTCTCTTGG
GGCCGCTGCAAGTGGGCAGGTGCCCTGGTGTCTCTGTGGGCGGGCCCCAGGCCCTTTGCG
GAGCGTGTGCCGCGCTGAAGGAAGGGGCCGTCCCCCTTACCATGCCCCATTCTTTTAGGC
TTGGGGGACCGAACTAACTCCCCCGCCCCCACTTGCAAAGTTTCAAGCTCCGCTTTAGAA
GCTGACCTCTCAGTTTCACTTGGATGTGTTTCTTCTTCACTCTCCAAGAAGAGTTTTTAG
ACAAACACACACTGATGAGAGTGCTTTCAAGTGGAGGGAAGTTAGGAAGTCGTGGCGAGG
GAGCGCAGCTGTGCTGCTGGATGTTGCTGTTTTCTGGCGTGTAGCGGTGGTCAACAGA
CAAGGCGCCTCTGTGCAAGAGCCTTCTGCTGGTCCCCAGTGCCCTCTCCCTCCTGCTCGC
CCTCCTCCTGCCTCACTGCCAGAAGCTCTTTGTGTATGACCTTCAAGCAGTCAAGAACGA
CTTCCAGCCTGGCACCTGTGTTTGTCTGTGTTGTACCATTTTACTGCTCCATACCAAGAG
TCCAAGTGGCACAATTTCTGGGTCCGTTGTCCATCACAAACAAGACATTGATTTATATAT
TGGGACTGCAGCTTTTCACTCTGGTTCTTACATCTGGATTGTAGCCATAAGTGGACTTA
TGTCGGGTCTGTGCTACGACAGCAAAATGTTCCAGGTGCATCAGGTGCTCTGCATCCCCA
GCTGGATGGCAAAATTTCTTTCTTGGACACTTGAAACCATCTTCTCTTCTTCTCAGAACCA
CCAGCGAAGCCAGAATTGGGATGGGAGCCAAGCTGGACATCCAGAGACAGCAGAGAATGG
AGCTGCTGGACCGGCAGCTGATGTTCTCTCAGTTTGCACAAGGGAGGCGACAGAGACAGC
AGCAGGGAGGAATGATCAATTGGAATCGTCTTTTTCTCCTTTTACGTGAGCGACAAAACG
TAACTATCAGGGCGGTGCGCAGTCTGAGCCAGCAGCGCCCCCTCTAGAAGTTTCTGAGG
AACAGGTGCGCCGGCTCATGGAGATGGGATTTTCCAGAGGTGATGCTTTGGAAGCCCTGA
GAGCTTCAAACAATGACCTCAATGTGCCCCAACCTTCTGCTGCAGCACTGATAGTCCC

FIGURE 1 (CONT'D)

AGGCCAACACTGGGACCGGACCGGCAGCCGAGTGACAGTGGTGGTCCCACCATCAGAT
CAGCCCGGGGACCGAGCATCTCTGGTGCTGATGTTCTTGTGGGAAGAGGGAGGTTCCACC
GCACCCCTGCCCTCAACCGCAAGACTGTTGCCGTTTTAGTGTGGAGATAAGTTTGCCATT
ACATTAGCATGTATTTTCTATCTATATTTTTTATTGGGCATTTTCCCTAGGTTGGAGAGT
CAGCACTCGTTTTGAATGTGTTTAAAATGCATTAAAATGGAAGATTTCTGCAGGCAGTTG
AATGGCACTCCAGATGGGGAATTGCTGTAACCTCTTACTGTAACATGTCATCTCCTGCG
TCGTGATGGGGAGAGGGTAATGTTACTTCACAAAGGACATGTCAGATCCTTCTTCATGGA
CTTTTTTAGTTACTGTTTTTCTCTCAAACCTGTTTTTGAATCTCCTGGGAGTGAGGGAG
AAACAGGGAGCTGAATCCTCCCCAAGCTGTTCCAGGCCAGAGGACTCTGCAGTACCTTC
TCCTACATCTAGTAACAAAGAATGGTGATAACCATGCACTGGTTCAAGGTTCTGGAGTTC
TCCATGAACTTGGGTTAATTTTGTCTCAGAGTATCCAGAGTTAGCCACTAGGCTGCGGGT
GAAATGGGATGGAGAAGAACAACAGCAGGCTTCTGGAGCCACATGGGCTGACTAGGGCA
CTCTGTGGCTGGCCTGGCATGGGCTCAGCCAGGAAGAGGAGAAACGATCCCTTGCTGC
CCCTCCTGTGGCAGGGCTAACTGCCTGGCCCTCCTGGCTCGCAGCCAGCCAGCCCCCTG
GCAGCAGGTTCTCCTCAGGGCTTGGGTCTTCAACCTGTGGCGACAGGAGGCAGGGCAGAC
TGTGGAGGACAGGATGCAGGTGAGGGAGAGGGAAGGCAGGGGTGGACCGCCATGAGCATG
AAAAGACCCGAAGCAAGTTGACTCTTGCAATGTGCAACTGTTATGTTCTGCAAAATGAGC
AACGATGTATCAAATTGATGCAATTTAGATGTTGATACTTACAATAAAGTTTTTAATGT
GTTTT

Gene 47. >ENST00000298386 cDNA sequence

GGCACTGAACCTTACTACATCAGAACTCCTGCTGAGGTATAAGAGGATACGTCTAATAACT
CAATTGCTGTAAACCTATGATTGTTTTTCTGGTTTTTAAACATCTCTTCAGCCTCAGATT
GATTACAATGTTCTTTCTACTTCATTTCATCGTTCTGATCAATGTCAAAGATTTTGCACT
GACTCAAGGTAGCATGATCACTCCTTCATGCCAAAAAGGATATTTTCCCTGTGGGAATCT
TACCAAGTGCTTACCCCGAGCTTTTCACTGTGATGGCAAGGATGACTGTGGGAACGGGGC
GGACGAAGAGAACTGTGGTGACACTAGTGGATGGGCGACCATATTTGGCACAGTGATGG
AAATGCTAACAGCGTGGCCTTAACACAGGAGTGCTTTCTAAAAACAGTATCCACAATGCTG
TGACTGCAAAGAACTGAATTGGAATGTGTAAATGGTGACTTAAAGTCTGTGCCGATGAT
TTCTAACAAATGTGACATTACTGTCTCTTAAGAAAAACAAAATCCACAGTCTTCCAGATAA
AGTTTTTCATCAAATACACAAAACCTTAAAAAGATATTTCTTCAGCATAATTGCATTAGACA
CATATCCAGGAAAGCATTTTTTGGATTATGTAATCTGCAAATATTATATCTCAACCACAA
CTGCATCACAACCTCAGACCTGGAATATTCAAAGACTTACATCAGCTAACTTGGCTAAT
TCTAGATGACAATCCAATAACCAGAATTTTACAGCGCTTGTTTACGGGATTAAATTCTTT
GTTTTTCTGTCTATGGTTAATAACTACTTAGAAGCTCTTCCCAAGCAGATGTGTGCCCA
AATGCCTCAACTCAACTGGGTGGATTTGGAAGGCAATAGAATAAAGTATCTCACAAATTC
TACGTTTCTGTGCTGCGATTGCTCAGAGTGCTGTTTCTGCCTAGAAATCAAATTGGTTTT
TGTTCCAGAGAAGACATTTTCTTCATTAAAAAATTTAGGAGAACTGGATCTGTCTAGCAA
TACGATAACGGAACTATCACCTCACCTTTTTTAAAGACTTGAAGCTTCTACAAAAGCTGAA
CCTGTATCCAATCCTCTTATGTATCTTCAAGAACCAGTTTGAAAGTCTTAAACAACCT
TCAGTCTCTAGACCTGGAAAGGATAGAGATTCAAATATAAACACACGAATGTTTCAACC
CATGAAGAATCTTTCTCACATTTATTTCAAAAACCTTCGATACTGCTCCTATGCTCCCCA
TGTCCGAATATGTATGCCCTTGACGGACGGCATTCTTCATTTGAGGACCTCTTGGCTAA
CAATATCCTCAGAATATTTGTCTGGGTATAGCTTTTATTACCTGCTTTGGAAATCTTTT
TGTCAATTGGCATGAGATCTTTTATTAAAGCTGAAAATACAACTCACGCTATGTCCATCAA
AATCCTTTGTTGTGCTGATTGCCTGATGGGTGTTTACTTGTTCTTTGTTGGCATTTCGA
TATAAATAACCGAGGGCAGTATCAGAAAGTATGCCTTGCTGTGGATGGAGAGCGTGCAAGT
CCGCCTCATGGGGTTCTTGCCATGCTGTCCACCGAAGTCTCTGTTCTGCTACTGACCTA
CTTGACTTTGGAGAAGTTCCTGGTCATTGTCTTCCCCTTCAGTAACATTCGACCTGGAAA
ACGGCAGACCTCAGTCATCCTCATTGTCATCTGGATGGCGGGATTTTAAATAGCTGTAAT
TCCATTTTGGAAATAAGGATTATTTGGAAACTTTTATGGGAAAAATGGAGTATGTTTCCC
ACTTTATTATGACCAAACAGAAGATATTGGAAGCAAAGGTATTCTCTTGGAAATTTTCT
AGGTGTGAACCTTGCTGGCTTTTCTCATCATTGTGTTTTCTATATTACTATGTTCTGTTT
CATTCAAAAAACCGCTTGACAGACCACAGAAGTAAGGAATTGTTTTGGAAGAGAGGTGGC
TGTTGCAAATCGTTTCTTTTTTATAGTGTTCTCTGATGCCATCTGCTGGATTCTGTATT

FIGURE 1 (CONT'D)

TGTAGTTAAAATCCTTTCCCTCTTCCGGGTGGAAATACCAGACACAATGACTTCCTGGAT
 AGTGATTTTTTTTCTTCCAGTTAACAGTGCTTTGAATCCAATCCTCTATACTCTCACAAC
 CAACTTTTTTTAAGGACAAGTTGAAAAGCTGCTGCACAAACATCAGAGGAAATCAATTTT
 CAAAATTAAAAAAAAGTTTATCTACATCCATTGTGTGGATAGAGGACTCCTCTTCCCT
 GAAACTTGGGGTTTTGAACAAAATAACACTTGGAGACAGTATAATGAAACAGTTTCCTA
 GCAATCATTTTGGATCACTGGACTTTTCACTGGACTACCTAAAAAGGGGACAGCTTTTGG
 AAGATGACATCTGCAATGCTTTTCATCTTTACCAACGGCAAGCCTTTCTGCACAGAGAGC
 ACAGCAGAATGGCTCCTGTCACTGCATTCCAATGGCAGCTGTACTATCTACCAACCATGC
 TGAGGACAGCACCAAAGGTTCTCTCCTCACCCACATGCCTGAAAAGCACATGTGAATT
 CGTGTATAGTGGGCTGAGGTGCAGCTGATCTCTAGCTAATCAACACAACCCACCAACAAA
 TGACCACAGGTTGGCACTGTGTGGTCTTTACATCGGGTTGCACTGTCCATGAAATAGAA
 ACACTCACAACATCTGATTCCAGTGTGGCCATAATAACAGAAATCTAACAACTCTTTCCT
 TGCCTTTTCAATATCAAATAAAACCATCAGCATCCTGCTGGATTGATA

Gene 48. >ENST00000267291 cDNA sequence

ATGGCAGCGCCACCTTCTCCAGGAAGGACGGCCGACCAAGCAGACCAGGTATGCACCTTC
 CTCTTCAAAAAGCCTGGACGGAAAGGGGCTGCAGGCCTCAGAAAGCGCCCGGCTGCGAC
 CCCGAGCACGGAGAGAGCAGCAGCAGCGGGACGAGGGCGACACAGTGGCTCAGCCCCCG
 CGGGTGGCACCGAGGCCCCGGGGCCTCCACAGCTGGCAGAAGGCGGCTCACGGCGACAGG
 AGGGGCGAGGAGGCGGCGCCTGAGAGCCTCGACGTGGTGTACAGGTCACCCGCTCGGCG
 AAGCCTGTGGGGCCAGAGGACATGGGGGCCACCGCTGACTTCGAGCAGGACACCGAGAAG
 GAGCACCATACGCCGACCATCCTCAAGTGCAGCCAGCGGGTCAGGAGGCACTGCGGGGT
 CGGGAGCACGACCACATCTACCGGGGAATCCACAGCTACCTGAGGTACCTGAAGCCCAAG
 GACACGTCCATGGGCAACTCCTCCTCGGGGATGGCGAGGAAGGGCCCATACGTGCGCCA
 GGGCATCTGCGCGCCACTGTGCGCTGGGATTACCAGCCTGACATCTGCAAGGACTACAAG
 GAGACTGGCTTCTGTGGCTTCGGGGACAGCTGCAAATTCCTCCACGACCGTTCCGATTAC
 AAGCTCGGGTGGGAGATTGAACGGGAGCTTGAAGAGGGTCGCTACTGTATCTGCGAGGAC
 GAAAACCATGAAGTGGGAAGCGAGGAAGAGGAAATACCATTCAAGGTGTTTCATATGTGCG
 CAGGCCTTCCAAAACCCAGTCGTCAACAAGTGCAGGCATTATTTCTGCGAGAGCTGCGCG
 CTGGAGCACTTCCGGGCCACCCCGCGCTGCTACATCTGTGACCAGCCAACCGGCGGCATC
 TTTAACCCCGCCAAAGAACTGATGGCGAAACTGCAAAAGCTTCAGGCTGCAGAAGGT

Gene 49. >ENST00000319562 cDNA sequence

GCGACCCGGAGCCCGCTCCCCACCCACCCCGCCTGCTCCGCCCTCCCTCCGCCCCGCGC
 CACCTTTGATGGCTCGGACCTCAGCCGGCCACCGCCAGCCCTGCTCGCGCGCCCGCGCCG
 CCGCCGCGCGCGGGTATTAATAGCCGGCGCCGCGCCGCTCGGCCGCGGGGGCTTGGG
 AGCCGCGGATCCCGGAGCCCGAGCCGGGAGAGGGAGCCGCGCAGCCGCGCGCGCTGTGG
 AGATATTCTCTAAGCCGCTTTTCATCATGGGAGAAATAGAGCAGAGGCCGACCCAGGATC
 ACGACTGGGGGCCCCGAAATTCGGGGATCAGTACCTTGAACGTGGACAGAAGCCGCC
 CCCAACACCTTCAGGAAAATCGTGTCCATCAAAATCCAGATGCTGGATGACACCCAGGA
 GGCATTTGAAGTTCCACAAAGAGCTCCTGGGAAGGTGCTGCTGGATGCAGTTTGCAACCA
 CCTCAACCTCGTGAAGGTGACTATTTTGGCCTCGAGTTTCTCTGATCACAAAAAGATCAC
 GGTGTGGCTGGATCTCCTAAACCCATTGTGAAACAGATTAGAAGGCCAAAGCACGTTGT
 TGTAAAGTTTGTGGTGAAATTTCTTCCGCTGACCACACACAACCTCAAGAAGAACTCAC
 AAGGTACCTGTTGCGCTGCAGGTGAAGCAGGACTTGGCTCAAGGCAGGTTGACGTGTAA
 TGACACCAGCGCAGCTCTCTTGATTTTACACATTGTGCAATCTGAGATTGGGGATTTTGA
 TGAAGCCTTGGACAGAGAGCACTTAGCAAAAAATAAATACATACCTCAGCAAGACGCACT
 AGAGGACAAAATCGTGAATTTTACCATAAACCATTTGGACAAAACACAGCAGAATCAGA
 TTTCCAGCTCCTAGAGATTGCCCGTGGCTAGAGATGTATGGAATCCGGTTGCACCCGGC
 CAAGGACAGGGAAGGCACGAAGATCAATCTGGCCGTTGCCAACACGGGAATTTCTAGTGTT
 TCAGGGTTTCACTAAGATCAATGCCTTCAAAGTGGGCAAGGTGCGGAAGCTGAGCTTCAA
 GAGGAAGCGCTTTCTCATCAAGCTCCGGCCAGATGCCAATAGTGCCTACCAGGATACCTT
 GGAATTCCTGATGGCCAGTCGGGATTTCTGCAAGTCCTTCTGGAAAATCTGTGTTGAACA
 TCATGCCTTCTTTAGACTTTTTGAAGAGCCCAACCAAAGCCCAAGCCCGTCTCTTTAG
 CCGGGGGTCATCATTTGCGTTTCACTGGTTCGGACTCAGAAGCAGGTTCTCGACTATGTTAA
 AGAAGGAGGACATAAGAAGGTGCAGTTTGAAGGAAGCACAGCAAGATTCAATCTATCCG

FIGURE 1 (CONT'D)

GAGCCTTGCTTACAGCCTACAGAACTGAATT CGGAAGTGCTGGAGCAGTCTCAGCAGAG
 CACCAGCCTTACATTTGGAGAAGGTGCCGAATCTCAGGGGGCCAGAGCTGCCGGCGAGG
 AAAGGAACCGAAGGTTTCCGCCGGGGAGCCGGGGTTCGACCCGAGCCCTGCGCCGAGGAG
 AAGCCCCGCGGTAACAAGCAGGCGGACGGAGCCGCCTCGGCGCCACGGAGGAAGAGGA
 GGAGGTGCTTAAGGATAGGACCCAGCAGAGTAAACCTCAGCCCCGAGCCAAGCACAGG
 CTCCCTGACTGGCAGTCTCACCTTTCCGAGCTGTCTGTGAACTCGCAGGGGGGAGTGGC
 CCCTGCCAACGTGACCTTGTCTCCCAACCTGAGCCCCGACACCAAGCAGGCCTCTCCCTT
 GATCAGCCCGCTGCTGAATGACCAGGCCTGCCCCCGACGGACGATGAGGATGAGGGCCG
 GAGGAAGAGATTCCCAACTGATAAAGCGTACTTCATAGCTAAGGAAGTGTCTACCAACGA
 GCGAACATATCTGAAGGATCTCGAAGTTATCACTTCGTGGTTTCAGAGCACAGTGAACAA
 AGAGGACGCCATGCCGAAGCACTGAAAAGTCTCATATTCCCGAATTTTGAACCTTTGCA
 CAAATTTTATACTAATTTTCTCAAGGAAATTGAGCAACGACTTGCCCTGTGGGAAGGCCG
 CTCAAATGCCAAATCAGAGATTACCAAGAATCGGCGATGTCTGCTGAAGAACATTCA
 GGGCATGAAGCACCTGGCGGCTCACCTGTGGAAGCACAGCGAGGCCTTGGAGGCCCTGGA
 GAATGGAATCAAGAGCTCCCGGCGCTGGAGAAGTCTGCGAGAGACTTTGAGCTGCAGAA
 GGTGTGTTACCTACCGCTCAACACCTTCTCCTGCGGCCACTGCACCGGCTCATGCACTA
 CAAGCAGGTCTGGAGCGGCTGTGCAACACACCCCGCCGAGCCACGCCGACTTCAGGGA
 CTGCCGAGCCGCTTTGGCAGAGATCACGGAGATGGTGGCACAGCTCCACGGTACGATGAT
 CAAGATGGAGAATTTCCAGAAGCTGCACGAACTCAAGAAAGATTTGATTGGCATTGACAA
 TCTTGTGGTTCCGGGAAGGGAGTTTATCCGTCTGGGCAGCCTCAGCAAGCTCTCGGGGAA
 GGGGCTCCAGCAGCGCATGTTCTTCTGTTCAACGACGTCCTGCTATACACGAGCCGGGG
 GCTGACGGCCTCCAATCAGTTTAAAGTCCACGGGCAGCTCCCGCTCTATGGCATGACGAT
 TGAGGAGAGCGAAGACGAGTGGGGGGTGCCCCACTGCTGACCTCCGGGGCCAGCGGCA
 GTCCATCATCGTGGCCGCCAGTTCTCGGTCCGAGATGGAGAAGTGGGTTGAGGACATCCA
 GATGGCCATTGACCTGGCGGAGAAGAGCAGCAGCCCCGCCCCTGAGTTCTTGCCAGCAG
 CCCCCCTGACAACAAGTCCCCTGATGAAGCCACCGCGGCTGACCAGGAGTCAGAGGATGA
 CCTGAGCGCCTCGCGCACATCGCTGGAGCGCCAGGCCCGCACCGCGGCAACACAATGGT
 GCACGTGTGCTGGCACCGCAACACCAGCGTCTCCATGGTGGACTTCAGCATCGCAGTGGA
 GAATCAGTTGTCTGGAAACCTGCTGAGGAAATTCAAAAACAGCAACGGGTGGCAGAAGCT
 GTGGGTGGTGTTCACAACTTCTGCCTGTTCTTCTACAAATCACACCAGGACAATCATCC
 CCTTGCCAGCCTGCCTCTGCTCGGCTACTCGCTCACCATCCCCTCTGAGTCCGAGAACAT
 CCAGAAAGACTACGTGTTCAAGCTGCACTTCAAGTCCCACGTCTACTACTTCAGGGCGGA
 AAGCGAGTACAGTTTCGAAAGGTGGATGGAAGTGATCCGCAGTGCCACCAGCTCTGCCTC
 GCGACCCCACGTGTTGAGTCACAAAGAGTCTCTTGTGTATTGATGGCCGGACACACTCGT
 TTCCGCAGTGGCTGCTTTCTGGAAGACGTTTCTTTCTTCTGTATTAAATGAAGCCTGGT
 AAAATTAACACCTGTCTGAAAATCAAAAACATGGCTTCCCAGCAGCTC

Gene 50. >ENST00000310635 cDNA sequence

ATGGGGAAAAA CAGAACAGAAAACTGGAACTCTAAAACGAGAGCGCCTCTCCTCCT
 CCAAAGGAACGCAGTTCTCACCAGCAACAGAACAAAGCTGGATGGAGAATGATTTTGAC
 GAGCTGAGAGAAGAAGGCTTCAGACGATCAAATTAATCTGAGCTACGGGAGGACATTCAA
 ACCAAAGGCAAGAAAGTTGAAAACTTTGAAAAAAATTTAGAAGAATGTATAACTAGAATA
 ACCAATACAGAGAAGTGCTTAAAGGAGCTGATGGAGCTGAAAACCAAGGCTCGAGAACTA
 CGTGAAGAATGCAGAAGCCTCAGGAGCCGATGCGATCAACTGGAAGAAAGGGTATCAGCA
 ATGGAAGATGAAATGAATGAAATGAAGCGAGAAGGGAAGTTTAGAGAAAAAAGAATAAAA
 AGAAATGAGCAAAGCCTCCAAGAAATATGGGACTATGTGAAAAGACCAAATCTACGTCTG
 ATTGGTGTACCTGAAAGTGATGTGGAGAATGGAACCAAGTTGGAAAACACTCTGCAGGAT
 ATTATCCAGGAGAACTTCCCAATCTAGCAAGGCAGGCCAACGTTTCTGATTTCAGGAAATA
 CAGAGAACGCCACAAAGATACTCCTCGAGAAGAGCAACTCCAAGACACATAATTGTGAGA
 TTCACCAAAGTTGAAATGAAGGAAAAAATGTTAAGGGCAGCCAGAGAGAAAGGTTCGGGTT
 ACCCTCAAAGGAAAGCCCATCAGACTAACAGCGGATCTCTCGGCAGAAACCTTACAAGCC
 AGAAGAGAGTGGGGGCCAATATTCAACATTCTTAAAGAAAAGAATTTTCAACCCAGAATT
 TCATATCCAGCCAAATTAAGCTTCATAAGTGAAGGAGAAATAAAATACTTTATAGACAAG
 CAAATGTTGAGAGATTTTGTCAACACCAGGCCTGCCCTAAAAGAGCTCCTGAAGGAAGCG
 CTAAACATGGAAAGGAACAACCGGTACCAGCCGCTGCAAAATCATGCCAAATGTAA

FIGURE 1 (CONT'D)

Gene 51. >ENST00000255303 cDNA sequence

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ATGACAGGATCAAATTCACACATAACAATATTAACCTTTAAATATAAATGGACTAAATTCT
GCAATTAAGAGACACAGACTGGCAAGTTGGATAAAGAGTCAAGACCCATCAGTGTGCTGT
ATTGAGGAAACC CATCTCACGTGCAGAGACACACATAGGCTCAAAATAAAAGGATGGAGG
AAGATCTACCAAGCCAATGGAAAAAAGGAGGGGTTGCAATCCTAGTCTCTGAC
AAAACAGACTTTAAACCAACAAAGATCAAAAGAGACAAAGAAGGCCATTACATAATGGTA
AAGGGATCAATTCAACAAGAGGAGCTAACTATCCTAAATATTTATGCACCCAATACAGGA
GCACCCAGATTATATAAGCAAGTCCTCAGTGACCTACAAAGAGACTTAGACTCCACACA
TTAATAATGGGAGACTTTAACACCCCACTGTCAACATTAGACAGATCAACGAGACAGAAA
GTCAACAAGGATACCCAGGAATTGAACTCAGCTCTGCACCAAGCAGACCTAATAGACATC
TACAGAATCTCCACCCCAATCAACAGAATATACATTTTTTTTTCAGCACCACACCACACC
TATTCAAAATTGACCACATAGTTGGAAGTAAAGCTCTCCTCAGCAAATGTAAAAGACA
GAAATTATAACAACTATCTCTCAGACCACAGTGCAATCAAACTAGAACTCAGGATTAAG
AATCTCACTCAAAGCCGCTCAACTACATGGAACTGAACAACCTGCTCCTGAATGACTAC
TGGGTACATAACGAAATGAAGGCAGAAATAAAGATGTTCTTTGAAACCAACGAGAACAAA
GACACCACATACAGAATCTCTGGGACGCATTCAAAGCAGTGTGTAGAGGGAAATTTATA
GCACTAAATGCCTACAAGAGAAAGCAGGAAAGATCCAAAATTGACACCCTAACATCACAA
TTAAAGAAGCTAGAAAAGCAAGAGCAAAACACATTCAAAGCTAGCAGAAGGCAAGAAATA
ACTAAATCAGAGCAGAACTGAAGGAAATAGAGACACAAAAAACCTTCAAAAAATCAAT
GAATCCAGGAGCTGGTTTTTTTGAAGGATCAACAAAATTGATAGACCGCTAGCAAGACTA
ATAAAGAAAAAGAGAGAGAAGAAATCAAAATAGACACAATAAAAAATGATAAAGGGGATATC
ACCACCGATCCACAGAAATACAACTACCATCAGAGAATACTACAAACACCTCTACGCA
AATAAACTAGAAAATCTAGAAGAAATGGATACATTCTCGACACATACACTCTCCAAGA
CTAAACCAGGAAGAAGTTGAATCTCTGAATAGACCAATAACAGGCTCTGAAATTGTGGCA
ATAATCAATAGTTTACCAACCAAAAAGAGTCCAGGACCAGATGGATTACAGCCGAATTC
TACCAGAGGTACATGGAGGAACTGGTACCATTCTTTCTGAAACTATTCCAATCAATAGAA
AAAGAGGGAATCTCCCTAACTCATTTTATGAGGC CAGCATCATTCTGATACCAAAGCCG
GGCAGAGACACAACCAAAAAAGAGAATTTTAGACCAATATCTTGATGAACATTGATGCA
AAAATCCTCAATAAAATACTGGCAACCGAATCCAGCAGCACATCAAAAAGCTTATCCAC
CATGATCAAGTGGGCTTCATCCCTGGGATGCAAGGCTGGTTCAATATACGCAATCAATA
AATGTAATCCAGCATATAAACAGAGCCAAAGACAAAAACCATGATTATCTCAATAGAT
GCAGAAAAAGCCTTTGACAAAATTCAACAACCCCTTCATGCTAAAAACTCTCAATAAATTA
GGTATTGATGGGACGTATTTCAAAATAATAAGAGCTATCTATGACAAACCCACAGCCAAT
ATCATACTGAATGGGCAAAAACCTGGAAGCATTCCCTTTGAAAACCGGCACAAGACAGGGA
TGCCCTCTCTCACCCTCTTATTCAACATAGTGTGGAAAGTTCTGGCCAGGGCAATCAGG
CAGGAGAAGGAAATAAAGGGTATTCAATTAGGAAAAGAGGAAGTCAAATTGTCCCTGTTT
GCAGACGACATGATTGTTTATCTAGAAAACCCCATCGTCTCAGCCCAAAATCTCCTTAAG
CTGATAAGCAACTTCAGCAAAGTCTCAGGATACAAAATCAATGTACAAAATCACAAGCA
TTCTTATACACCAACAACAGACAAAACAGAGAGCCAGATCATGGGTGAACTCCCATTCACA
ATTGCTTCAAAGAGAATAAAATACCTAGGAATCCAGCTTACAAGGGATGTGAAGGACCTC
TTCAAGGAGAACTACAAACCACTGCTCAAGGAAATAAAAGAGGAGACAAACAAATGGAAG
AACATTCCATGCTCATGGGTAGGAAGAATCAATATCGTGAAAATGGCCATACTGCCCAAG
GTAATTTACAGATTCAATGCCATCCCCATCAAGCTACCAATGACTTTCTTTCAGAAATTG
GAAAAAATACTTTAAAGTTTCAATGGAACCAAAAAAGAGCCCGCATCGCCAAGTCAATC
CTAAGCCAAAAGAACAAAGCTGGAGGCATCACACTACCTGACTTCAAACCTATACTACAAG
GCTACAGTAACCAAAAACAGCATGGTACTGGTACCAAAAACAGAGATATAGATCAATGGAAC
AGAACAGAGCCCTCAGAAATAATGCCGCATATCTACAACCTATCTGATCTTTGACAAACCT
GAGAAAAACAAGCAATGGGGAAAGGATTCCTTATTTAATAAATGGTGTGGGAAAACTGG
CTAGCCATATGTAGAAAGCTGAAAACCTGGATCCCTTCTTACACCTTATACAAAATCAAT
TCAAGATGGATTAAAGATTTAAACGTTAAACCTAAAACCATAAAAACCTTAGAAGAAAAC
CTAGGCATTACCATTCAGGACATAGGCGTGGGCAAGGACTTCATGTCCAAAACACCAAAA
GCAATGGCAACAAAAGACAAAATTTGACAAATGGGATCTAATTAAACTAAAGAGCTTCTGC
ACAGCAAAAGAACTACCATCAGAGTGAAACAGGCAACCTACAACATGGGAGAAAATTTTT
GCAACCTACTCATCTGACAAAGGGCTAATATCCAGAATCTACAATGAACTCAAACAAATT

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FIGURE 1 (CONT'D)

TACAAGAAAAAACAACCAACCCCATCAAAAAGTGGGTGAAGGACATGAACAGACACTTC
TCAAAAGAAGACATTTATGCAGCCAAAAACACATGAAGAAATGCTCATCACTGGCC
ATCAGAGAAATGCAAATCAAAACCACTATGAGATATCATCTCACACCAGTTAGAATGGCA
ATCATTAATAAAGTCAGGAAACAACAGGTGCTGGAGAGGATGCGGAGAAATAGGAACACTT
TTACTACTGTTGGTGGGACTGTAACTAGTTCAACCATTGTGGAAGTCAGTGTGGCGATTCT
CTCAGGGATCTAGAAGTAGAAATACCATTTGACCCAGCCATCCATTACTGGGTATATAC
CCAAATGAGTATAAATCATGCTGCTATAAAGACACATGCACACGTATGTTTATTGCGGCA
CTATTACAATAGCAAAGACTTGGAACCAACCCTCAATGTCCAACAATGATAGACTGGATT
AAGAAAATGTGGCACATATACACCATGGAATACTATGCAGCCATAAAAAATGATGAGTTC
ATATCCTTTGTAGGGACATGGATGAAATTGGAAACCATCATTCTCAGTAACTATCGCAA
GAACAAAAACCAACACCGCATATTCTCACTCATAGGTGGGAATTGA

Gene 52. >ENST00000323941 cDNA sequence

GTCGGGAAGATGGCGCTACGTCTGCTGCGGAGGGCGGCGCGGAGCTGCGGCGGCGGCG
CTGCTGAGGCTGAAAGCGTCTCTAGCAGCTGATATCCCCAGACTTGGATATAGTTCCTCA
TCCCATCACAAGTACATCCCCCGGAGGGCAGTGCTTTATGTACCTGGAAATGATGAAAAG
AAAATAAAGAAGATTCCATCCCTGAATGTAGATTGTGCAGTGCTCGACTGTGAGGATGGA
GTGGCTGCAACAAAAAGAATGAAGCTCGACTGAGAATTGTAAAACTCTTGAAGACATT
GATCTGGGCCCTACTGAAAAATGTGTGAGAGTCAACTCAGTTTCAGTGGTCTGGCGGAA
GAAGACCTAGAGACCTTTTGAATCCCGGGTCTTCTTCCAGCCTGATGCTACCAAAG
GTGGAAGTCTGAAGAAATCCAGTGGTTTGCAGACAAATTTTCATTCCACTTAAAGGC
CGAAAACCTTGAACAACCAATGAATTTAATCCCTTTTGTGGAAGTCAATGGGTTTGTCTC
AATTTTAAGGCAGTGTGTGAAGAAACCTGAAGGTCGGGCCTCAAGTAGGTCTCTTTCTA
GATGCAGTCGTTTTTGGAGGAGAAGACTTTCGAGCCAGCATAGGTGCAACAAGTAGTAAA
GAAACCTTGATATTCTCTACGCCCGGCAAAAGATTGTTGTATAGCGAAAGCCTTTGGT
CTCCAAGCCATAGATCTGGTGTACATTGACTTTCGAGATGGAGCTGGGCTGCTTAGACAG
TCACGAGAAGGAGCCGCCATGGGCTTCACTGGTAAGCAGGTGATTACCCCTAACCAATT
GCCGTGGTCCAGGAGCAGTTTTCTCCTTCCCCTGAAAAAATTAAGTGGGCTGAAGAACTG
ATTGCTGCCTTTAAAGAACATCAACAATTAGGAAAGGGGCTTTACTTTCCAAGGGAGT
ATGATCGACATGCCATTACTGAAGCAGGCCAGAACACTGTTACGCTTGCCACCTCCATC
AAGGAAAAATGATCTGTAAATGAAGCTGTATCAGGGAATGCTGAGCTGCAATGACCAT
TACTGTAGAGTTACAACAAGAGGGTAAAGTTTCATACATGGCGACCTGTGTCAAATCCGTC
CATTGATCTGCCCTCCAGCACACATTTACTGAGCTTCTGTTACGTGCCTGTGGTTCTTGG
AAAGAGCTTTTTCTTCTCTACAAGGAGGAATCTGATGCAACTGACATCCTCAATAGCTA
CAGAGAACTTGCAAAGGAGTAGAGAGAATGTTTGAGGTCCAGCCTTGGTGTAGAGAAGCG
GCAGAAACAGAAATCCCAAAGGTGTATGCTTGGCTCCAGCTCTGTGCTCTCAGAACTC
CCTTCCCTCTGGGCAGAGGCCCATCTGCTCTGTTTACACACCTGGACCTGGTGTGAAGGG
AGGTTTGGAGGAGGGTAGCTCCCTGACCATTGTGGAATCGTTTCTGCTTCCAAGCAGCA
TGCTACAGGCCAGCCTTCAAAGAAAGACCAGAAGCCAAGTGTACTCTGTATCACTTAAT
AATGCTTGAAGCTTTTCATATAACAAAAGGAATGAAGCAGCCCCGCCTCGCAGTGTGGAA
GCCTGATCATTCTTCCATCAGCTCTGCACCAAAAAGCTTTTCTGAGCTTTGAATATTAG
ATCTGACCAATATGGGTAACCAATGCCCTTAGGTAAGGTAAAATAGGAATAAAATAGCTG
TTTGCAATGTTATTTACCACACAGTGTGGTAGGGAGGGAAGTATGTTGCAATGCAA
AGTAATCTAGTAGTACTGTTTGTAGAACAGACAAGTGTGTCCAATTTAAAGAATATCAAC
ATCATTTTTCTATATCATACTCTTGTGAGGTTGGATTTAACACAGAGGCAGAAAGTTGG
TCTACTTTGCTCGTTTCTGGCAACTAGCATGGTGCCTGCCCCCTAATACATTTTCACTGAA
TGAATGAATCAGTGAGTTAATGAATAAATAACAAATGGGAGGTGTTCTCCTTTATATTG
TGTTAGAGGCTGAGGATATAGAAATATGTAACCTCAGAGTCCCATTCCACAAGCCCATGCT
AGTGAGCCAACACAAACAAAAAACAACCTCAAAATCAATGTGATTAATTCCTAAAATCATA
GCACTAACATTAGTAGTCATGTCCAGCTCTTCTTTTATGTGAGGTACCTAGACATAGCG
GAACAGAAAACCTTCAAAGGTTAGTCTAGTCTGGAAAAACAAACATGAAGCAAAGAAGG
CACAAACCCATATGGAAAAGCAAGACAGAAATATGTACAGGGCAGAGAGGCTGCACTGTG
TCATTTAATCACGAAGACTCTGTTATTAGACTGCTCGAATACACAAAGCTGTGTTACCTT
GGACATGTTACTTCACCTCTCTGGGCTTCAGTTGTCTCATTCTGTAAAATGGTGATATTA
CTGGAACCTCATCTCATAGGGTGTGTAGTGAGTGAATGTTTGTAAAAACAGGATAGTGCCCA

FIGURE 1 (CONT'D)

GCACATACTAGTAACAAATGTAAAATACATGAAACAAATAAATATTTCTGTGTCCTCTG
AACTTTAAACTCTCATC

Gene 53. >ENST00000255481 cDNA sequence

CGCGCAGCATGCCCGCCAGCAGCGCCCGCGCGCCCGCGGCCCGCCCGCCCGTTCGCTGT
CGCTGCTGCTGGTGTCTGCTGGGCCTGGGCGGCCGCCCTGCGTGCGGAGCCGGGCGACG
GCGCGCAGACCTGGGCCCGTTTCTCGCGGCCTCCTGCCCCGAGGCCGCGGGCCTCTTCC
AGGGCACCTTCCCCGACGGCTTCTCTGGGCCGTGGGCAGCGCCGCTACCAGACCGAGG
GCGGCTGGCAGCAGCACGGCAAGGGTGCCTCATCTGGGATACGTTACCCACCACCCCC
TGGCACCCCCGGGAGACTCCCGGAACGCCAGTCTGCCGTGGGGCGCCCCGTGCGCGCTGC
AGCCCCCACCAGGGGACGTAGCCAGCGACAGCTACAACAACGTTCTCCGCGACACGGAGG
CGCTGCGCGAGCTCGGGGTCACTCACTACCGCTTCTCCATCTCGTGGGCGCGAGTGTCTCC
CCAATGGCAGCGCGGGCGTCCCCAACCCGCGAGGGGCTGCGCTACTACCGGCGCCTGCTGC
AGCGGCTGCGGGAGCTGGGCGTGCAGCCCGTGGTCACCCTGTACCACTGGGACCTGCCCC
AGCGCCTGCAGGACGCCTACGGCGGCTGGGCCAACCGCGCCCTGGCCGACCACCTCAGGG
ATTACGCGGAGCTCTGCTTCCGCCACTTCGGCGGTCAAGTCAAGTACTGGATCACCATCG
ACAACCCCTACGTGGTGGCCTGGCACGGCTACGCCACCGGGCGCCTGGCCCCCGGCATCC
GGGGCAGCCCGCGGCTCGGGTACCTGGTGGCGCACAACCTCCTCCTGGCTCATGCCAAAG
TCTGGCATCTCTACAATACTTCTTTCCGTCCCACTCAGGGAGGTCAAGTGTCCATTGCC
TAAGCTCTCACTGGATCAATCCTCGAAGAATGACCGACCACAGCATCAAAGAATGTCAAA
AATCTCTGGACTTTGTACTAGGTTGGTTTGCCAAACCGTATTTATTTGATGGTGACTATC
CCGAGAGCATGAAGAATAACCTTTCATCTATTCTGCCTGATTTTACTGAATCTGAGAAAA
AGTTCATCAAAGGAACTGCTGACTTTTTTGCTCTTTGCTTTGGACCCACCTTGAGTTTTT
AACTTTTGGACCTCACATGAAGTTCGCGCAATTGGAATCTCCCAACCTGAGGCAACTGC
TTTCTCGATTGACCTTGAATTTAACCATCCTCAAATATTTATTTGTGGAATAATGGCTGGT
TTGTCTCAGGGACCACCAAGAGAGATGATGCCAAATATATGTATTACCTCAAAAAGTTCA
TCATGGAAACCTTAAAAGCCATCAAGCTGGATGGGGTGGATGTCATCGGGTATACCGCAT
GGTCCCTCATGGATGGTTTTCGAGTGGCACAGAGGTTACAGCATCAGGCGTGGACTCTTCT
ATGTTGACTTTCTAAGCCAGGACAAGATGTTGTTGCCAAAGTCTTCAGCCTTGTTCTACC
AAAAGCTGATAGAGAAAAATGGCTTCCCTCCTTTACCTGAAAAATCAGCCCCTAGAAGGGA
CATTTCCCTGTGACTTTGCTTGGGGAGTTGTTGACAACTACATTCAAGTAGATACCACCTC
TGTCTCAGTTTACCGACCTGAATGTTTACCTGTGGGATGTCCACCACAGTAAAAGGCTTA
TTAAAGTGGATGGGGTTGTGACCAAGAAGAGGAAATCCTACTGTGTTGACTTTGCTGCCA
TCCAGCCCCAGATCGCTTTACTCCAGGAAATGCACGTTACACATTTTCGCTTCTCCCTGG
ACTGGGCCCTGATTCTCCCTCTGGGTAAACAGTCCAGGTGAACCACACCATCCTGCAGT
ACTATCGCTGCATGGCCAGCGAGCTTGTCCGTGTCAACATCACCCAGTGGTGGCCCTGT
GGCAGCCTATGGCCCCGAACCAAGGACTGCCCGCCTCCTGGCCAGGACAGGGCGCCTGGG
AGAACCCCTACACTGCCCTGGCCTTTGCAGAGTATGCCCGACTGTGCTTTCAAGAGCTCG
GCCATCACGTCAAGCTTTGGATAACGATGAATGAGCCGTATACAAGGAATATGACATACA
GTGCTGGCCACAACCTTCTGAAGGCCCATGCCCTGGCTTGGCATGTGTACAATGAAAAGT
TTAGGCATGCTCAGAATGGGAAAATATCCATAGCCTTGACAGGTGATTGGATAGAACCCTG
CCTGGCCCTTTCTCCAAAAGGACAAAGAGGTGGCTGAGAGAGTTTTGGAATTTGACATTG
GCTGGCTGGCTGAGCCCATTTTCGGCTCTGGAGATTATCCATGGGTGATGAGGGACTGGC
TGAACCAAAGAAACAATTTTCTTCTTCTTATTTCACTGAAGATGAAAAAAGCTAATCC
AGGGTACCTTTGACTTTTGGCTTTAAGCCATTATACCACCATCCTTGTAGACTCAGAAA
AAGAAGATCCAATAAAATACAATGATTACCTAGAAGTGCAAGAAATGACCGACATCAGGT
GGCTCAACTCCCCAGTCAGGTGGCGGTAGTGCCCTGGGGGTTGCGCAAAGTGCTGAAC
GGCTGAAGTTCAAGTACGGAGACCTCCCCATGTACATAATATCCAATGGAATCGATGACG
GGCTGCATGCTGAGGACGACCAGCTGAGGGTGTATTATGATGCAGAATTACATAAACGAAG
CTCTCAAAGCCACATACTGGATGGTATCAATCTTTGATCGGATACCTTGTCTTATTCGTTTA
ACGACCGCACAGCTCCGAGGTTTGGCCTCTATCGTTATGCTGCAGATCAGTTTGGAGCCCA
AGGCATCCATGAAACATTACAGGAAAATTAATTGACAGCAATGGTTTCCCGGGCCAGAAA
CTCTGGAAAGATTTTGTCCAGAAGAATTACCGTGTGTACTGAGTGCAGTTTTTTTTTCA
CCCGAAAGTCTTTACTGGCTTTTCATAGCTTTTCTATTTTGTGCTTCTATTATTTCTCTCT
CCCTTATATTTTACTACTCGAAGAAAGGCAGAAGAAGTTACAAATAGTTCTGAACATTTT

FIGURE 1 (CONT'D)

TCTATTCATTTCATTTTGAATAATTATGCAGACACATCAGCTGTTAACCATTTGCACCTC
 TAAGTGTTGTGAACTGTAAATTTATACATTTGACTTCTAGAAAACATTTTGTGGCTT
 ATGACAGAGGTTTTGAAATGGGCATAGGTGATCGTAAAATATTGAATAATGCGAATAGTG
 CCTGAATTTGTTCTCTTTTTGGGTGATTAATAAACTGACAGGCACTATAATTTCTGTAAC
 AACTAACAAAAGCATGAAAAATAGGAACCACACCAATGCAACATTTGTGCAGAAATTTG
 AATGACAAGATTAGGAATATTTTCTTCTGCACCCACTTCTAAATTTAATGTTTTTCTGGA
 AGTAGTAATTGCAAGAGTTTGAATAGAAAGTTATGTACCAAGTAACCATTTCTCAGCTGC
 CATAATAATGCCTAGTGGCTTCCCCTCTGTCAAATCTAGTTTCTATGAAAAGAAGATG
 GCAGATACAGGAGAGACGACAGAGGGTCTAGGCTGGAATGTTCTTTTCAAAGCAATGC
 TTCTATCAAATACTAGTATTAATTTATGTATCTGGTTAATGACATACTTGAGAGCAAAT
 TATGGAATGTGTATTTTATATGATTTTTGAGGTCCTGTCTAAACCCTGTGTCCCTGAGG
 GATCTGTCTCACTGGCATCTTGTGAGGGCCTTGACATAGGAACTTTTGATAAGTATC
 TGCGGAAAAACAAACATGAATCCTGTGATATTGGGCTCTTCAGGAAGCATAAAGCAATTG
 TGAAATACAGTATACCGCAGTGGCTCTAGGTGAGGAAAGGAGGAAAAAGTGCTTATTAT
 GTGCAACATTATGATTAATCTGATTATACACCATTTTTTGAGCAGATCTTGAATGAATGA
 CATGACCTTTCCCTAGAGAATAAGGATGAAATAATCACTCATTCTATGAACAGTGACACT
 ACTTTCTATTCTTTAGCTGTACTGTAATTTCTTTGAGTTGATAGTTTTACAAATTCTTAA
 TAGGTTCAAAGCAATCTGGTCTGAATAACACTGGATTTGTTTCTGTGATCTCTGAGGTC
 TATTTTATGTTTTTGTCTACTTCTGTGGAAGTAGCTTTGAACTAGTTTTACTTTGAAC
 TTTACGCTGAAACATGCTAGTGATATCTAGAAAGGGCTAATTAGGTCTCATCCTTTAAT
 GCCCCTTAAATAAGTCTTGCTGATTTTTCAGACAGGGAAGTCTCTCTATTACACTGGAGCT
 GTTTTATAGATAAGTCAATATTGTATCAGGCAAGATAAACCAATGTCATAACAGGCATTG
 CCAACCTCACTGACACAGGGTCATAGTGATAATAATATACTGTACTATATAATATATCA
 TCTTTAGAGGTATGATTTTTTTCATGAAAGATAAGCTTTTGGTAATATTCATTTTAAAGTG
 GACTTATTTAAATTGGATGCTAGAGAATCAAGTTTATTTTATGTATATATTTTTCTGATT
 ATAAGAGTAATATATGTTTATTGTAAAAATTTTTAAACACAGAACTATATGCAAAGAA
 AAAATAAAATTATCTATAATCTCAGAACCCAGAAATAGCCACTATTAACATTTCTACG
 TATTTTATTTTACATAGATCATATTGTATATAGTTAGTATCTTTATTAATTTTATTATG
 AAATTTTCTTTGTCAATTATTAGTCTTCAAAGCATGATTTTTAATAGTTGTTGAGTATT
 CCACCACAGGAATGTATCACAACCTTAACCGTTCCCGTTTGTAGACTAGTTTCTTATTAA
 TGTTGATGAATGTTGTTTTAAAAATAATTTTGTGCTACATTTACTTTAATTTCTTTGACT
 GTAAAGAGAAGTAATTTTGTCTCTTGATAAAGTATTATATTAATAATAAATCTGCCTGCA
 ACTTTTTGCCTTCTTTTCATAATC

Gene 54. >ENST00000302464 cDNA sequence

ATGGCGGCCAGCAGGAGGCTGATGAAGGAGCTTGAAGAAATCCGCAAATGTGGAATGGAA
 AACTTCCGTAAACATCCAGGTTGATGAAGCTAATTTATTGACTTGGCAAGGGCTTATTGTT
 CCTGACAACCCTCCGTATAATAAGGGGGCCTTCAGAATCGAAATCAACTTTCCAGCAGAG
 TACCCATTCAAACCAACGAGGATCACATTTAAACAAAGATCTATCACCCGAACATCGAC
 GAAAAGGGGCAGGTCTGTCTGCCAGTAATTAGTGCTGAAAACCTGGAAGCCAGCAACCAAA
 ACCGACCAAGTAATCCAGTCCCTCATAGCACTGGTGAATGACCCGAGCCGAGCACCCG
 CTTCCGGGCTGACCTAGCTGAAGAATACTCTAACGACCGTAAAAAATTTCTGTAAGAATGCT
 GAAGAGTTTACAAAGAAATATGGGGAAAAGCGACCTGTGGACTAA

Gene 55. >ENST00000261575 cDNA sequence

TGTGTTTTTAGGAACTATCCCTTCGACATAGTGACATTGTTAAACCTTGTTCTATTCAAG
 GCCTCTGACACCAACAGAGAGATTTATGAAATCTCCATGCAGCTCATGCAGGCACCAAAG
 CTTTTTGTATACTCAAAGAAAGTCGCTGAGCAAAGACCGGGAAGTATTCTCTATGGAACA
 CACGGCCCGCTGCCACCCCTCTACAGCGTGTCACTTGCCCTCTTGTCATGTGAGCTGGCC
 AGGATGTACCCTGAGCTCACACTCCCCCTCTTCTCAGGTAAGCCAGCGATTCCCCACAAC
 ACACCCCAACGGGCGCCAGATCATGCTTACCTACCTGCTGCCCTGGCTGCACAACATCGA
 GCTGGTGGACAGCAGGCTCCTCCTCCCGGGAGCCCCAGCAGCCAGAGGACGAAGTCAAG
 GACCGGGAAGGTGACGTGACTGCTTCTACGGGCTGAGAGGAAATGGCTGGGGCTCTCCA
 GAAGCCACGTCACTGGTCCTGAACAACCTCATGTACATGACGGCCAAGTATGGAGATGAA
 GTTCCTGGGCCAGAAATGGAAAATGCTTGGAATGCTTTAGCCAACAATGAGAAATGGAGC
 AACAACTGAGGATCACCTTGCAAGTTCCTGATTAGCCTCTGTGGGGTCAAGCAGCGACACA

FIGURE 1 (CONT'D)

GTTCTCCTACCTATATTAAAAAGTGGCAATATACTTGTGCCGTAAACAACACCATTCAA
 ACCATGGAAGAGCTTCTCTTTGAGCTGCAGCAGACAGAGCCCGTGAACCCCATCGTCCAG
 CATTGTGACAACCCGCCCTTCTACCGCTTACGGCCAGTAGCAAGGCTTCCGCAGCAGCC
 TCAGGAACCACCTCTAGCAGCAATACAGTGGTTGCTGGCCAGGAAAATTTCCAGATGCT
 GAGGAGAACAAGATATTGAAAGAATCTGATGAAAGGTTTAGTAATGTCATCAGAGCCCAC
 ACTCGCCTCGAGTCAAGATACAGCAATAGCTCTGGAGGATCCTACGATGAAGATAAAAAT
 GATCCAATTTCTCCCTACACGGGCTGGTTGCTGACTATTACAGAGACCAAGCAGCCGCAG
 CCCTTACCGATGCCTTGTACTGGAGGATGCTGGGCCCCCTGGTTGACTATCTCCCGGAG
 ACCATCACTCCCCGGGGGCCACTCCACAGGTGCAATATTGCTGTAATTTTTATGACTGAA
 ATGGTGGTGGATCACAGTGTACGAGAAGACTGGGCGCTTCATCTACCATTATTACTTCAT
 GCTGTCTTCTTAGGTTTAGACCACTACCGGCCTGAAGTCTTTGAACA CAGCAAAAACTG
 CTTCTTCACTCTTGATTGCCCTCTCTTGCAACAGCAATTTCCATTCCATTGCTTCCGTG
 CTCCTGCAGACCCGAGAGATGGGTGAAGCTAAGACTCTAACCGTGCAGCCAGCCTACCA
 CCTGAATATCTCTATACAGGTGGCTTTGACTTCCTGAGAGAGGACCAAGTCATCCCCGGTG
 CCTGACTCAGGGCTTAGTTCAAGCTCCACCTCCTCTAGCATCAGTCTGGGAGGCAGCAGT
 GGAAACCTCCACAGATGACCCAGGAGGTAGAAGATGTGGACA CAGCTGCTGAAACAGAT
 GAGAAGGCAAAACAAGCTCATTGAGTTTCTCACGACCAGGGCATTGGTCCACTTTGGTGC
 CATGAAGACATCACACCTAAAAATCAAATTCAAAGAGTGCTGAACAGCTCACTAATTTT
 CTACGTACGTTGTATCTGTATTTAAAGATTCAAATCAGGCTTCCA TCTGGAGCACCAG
 TTGAGTGAAGTTGCATTGCAGACAGCCCTCGCAAGCTTTCAAGGCACTATGCTGGTCGG
 TCCTTCCAGATATTCCGGGCCCTCAAGCAACCTCTGTGCAGCATGCCTTATCTGACCTT
 CTCTCAAGATTGGTGGAGGTGATAGGAGAACATGGAGATGAGATTAGGGTTATGTAATG
 GAAGCGCTCCTAACCTTGGAGGCGGCTGTGGATAACTTGTCTGACTGCTTGAAGAACAGT
 GACCTCCTAACTGTATTGTCCCGCTCTTCCTCACCAGATTTAAGCTCCAGCAGTAAACTA
 ACAGCAAGCAGAAAGAGCACAGGACAACCTAAACATGAACCCGGGAACACCAGCGGCAAC
 ACCGCAACTGCCGAACGGAGCCGGCATCAACGAAGCTTCTCTGTGCCCAAGAAGTTGGT
 GTCATCGACCGATCCTCTGACCCACCTCGAAGTGCCCACTGGACAGAATTAGGCTTGT
 ACCCAACAAGGCCTCTCCTCAAAAACCGAAGCTCATCCTCCTTGAAGGACAGTCTCAG
 GACCCATCCACATAAACCATCCACCAACCTGCTGGCCACCATATTCTGGGTACAGTG
 GCCTTGATGGAGTCTGATTTTGAAGTTTGAATACTTAATGGCCTTAAGGCTGTTGAGCAGA
 CTACTGGCACATATGCCACTCGATAAGGCTGAGAACCGAGAAAAGCTTGAGAACTCCAG
 GCACAGCTGAAGTGGGCCGACTTCTCCGGGCTGCAGCAGCTGCTGCTGAAAGGATTACA
 TCCCTCACCACCACAGACCTGACCCTGCAGCTCTTCAGTCTGCTGACACCAGTGTCAAA
 ATATCCATGGTGGATGCATCCCACGCTATTGGGTTTTCACTGAATGTCTTGTGTCTCCTG
 CCTCAGCTGATTTCAGCATTTTGAAGTCCCAATCAGTTCTGTAAGGATATAGCCGAAAGG
 ATTGCTCAGGTTTGTGTTAGAAGAGAAGAACCCCAACTTTCAAATCTTGACATGTCATG
 ACTCTTTATAAAACGCACAGCTACACGAGGGACTGTGCCACGTGGGTCAATGTGGTCTGT
 CGATACCTTCATGAAGCATATGCTGACATTACCTTGAATATGGTTACCTA CCTGGCAGAG
 CTGCTGGAGAAGGGCCTCCCTAGTGTGCAGCAGCCCTGCTCCAGGTGATCTACAGTCTT
 CTCAGCTACATGGACCTTTCTGTGTTTCTGTCAAACAGTTCAATGTGGAAGTTCTGAAG
 ACAATTGAAAAATATGTGCAAAGTGTCACTGGAGAGAAGCTCTGAATATCTTGAAGCTG
 GTAGTTTCTCGGTGAGCCAGCCTTGTTTTACCTTCATACCAGCACAGTGACCTCTCAAAA
 ATAGAAATACATCGAGTGTGGACTAGTGCTTCAAGGAATTACCTGGGAAAACCTGGAC
 TTCCACTTCGATATTTTCGGAGACTCCAATCATCGGGAGGCGGTATGATGAGCTGCAGAAT
 TCTTCTGGGCGTGATGGGAAGCCCAGGGCCATGGCCGTCAACCGGAGCACATCTTCCACT
 TCCTCAGGCTCCAACCTCAACGTCCTTGTTCAGTGAGCTGGAAAAGGCCCCAGTATTCT
 CAGAAGAGAACAAGAGAAGTTGGTACATGTCCTTTCTCTGTGTGGCCAAGAAGTAGGA
 TTGAGCAAAAATCCATCAGTGATTTTTTCATCGTGTGGGGATCTGGATCTGCTTGAGCAC
 CAGACAAGCTTGGTATCTTCTGAGGACGGTGCCCGAGAGCAGGAGAACATGGATGACACA
 AACAGCGAGCAGCAGTTTAGAGTCTTCAGAGACTTCGACTTCCTAGATGTGGAGCTGGAG
 GATGGAGAGGGTGAGAGTATGGACAATTTCAACTGGGGAGTGCGCAGACGTTCTCTGGAC
 AGCCTGGATAAGTGTGATATGCAGATTCTGGAGGAGCGCAACTGTGAGGAAGCACTCCT
 AGCCTGAATAAAATGCACCATGAGGACTCCGATGAATCATCCGAGGAGGAGGACCTCACA
 GCCAGCCAGATCCTGGAGCACTCAGACCTAATCATGACTCTCTCCCCCTCTGAAGAGACG

FIGURE 1 (CONT'D)

AATCCCATGGAGCTGCTCACCAAGCCTGTGACTCGACCCCTGCAGAACCTCATTCTTTT
AACACCAGAATGTCCAGCTTTGATGCTTCCTTGCCTGATATGAATAATCTGCAGATTTCT
GAGGGTTCAAAGGCTGAAGCTGTTCTGTGAGGAGGAGGACACCACCGTGCATGAGGATGAT
CTTTCTAGTTCCATCAATGAACTCCAGCAGCTTTTGAATGCAGCGACAGCTTTAGCCTG
GACATGACTGAGGGGAAGAAAAAGGCAATCGGGCACTGGACCACTTTACCCTGGCGAGC
TTTGAGAGAAGGTGACAGGGGAGTCTCTCCCCCTCCCTCGCCCTTCTTCTCAGCCATCCTT
GCCGCCTTTTCAAGCCGAGCCTGTGACGATGCCGAGGAGGCTGGCGCAGCCACATCAAC
CAGCTTATGTGTGACTCAGATGGCTCCTGTGCTGTGTATACATTTTATGTGTTCTCCTCC
TTGTTTAAGAATATTAGAAAAGGTTCTGCTTCCTAACCTGTGATGCAGCCAGTTACCTT
GGAGATAACCTCCGGGGAATCGGATCCAAATTTGTGAGCTCTTCCAGATGCTCACCTCC
TGCTCTGAATGTCTACACTTTTTTGTGGATGCCGAGACTCTCCTTTTATGTGGACTTCTG
GACAAGCTCAAGTTAGTGTGTTAGAACTGCAAGAATATTTGGATACCTACAACAACAGG
AAAGAGGCCACACTCTCTTGGCTTGCAAATTTGTAAGGCAACATTTGAGGGGGATCAAGA
GATGGAGTAATTACCTGTCAACCAGGGGACTCCGAAGAAAAGCAATTGGAACTGTGTGAG
AGATTATATAAGCTACACTTCCAGCTGCTATTGCTTTTTTCACTCCTACTGTAAGCTCATC
GGCCAGGTGCACGAAGTTAGCTCCATGCCAGAGCTGCTGAATATGTCCAGGGAACTGAGT
GACCTAAAGAAACACCTGAAGGAAGCCAGTGCAGTCAATTGCAGCTGACCTCTCTATTCA
GACGGCGCGTGGTCCGAGCCCACTTCACTGCTGAAGCAGCCATCCAGTCCATGCTG
GAGTGCCTGAAGAACCAAGAACTCGGCAAGCTTTGCGGCAGATCAGGGAGTGCAGAAGT
CTGTGGCCCAATGACATCTTTGGAAGCAGTTCTGATGATGAGGTCCAGACACTACTGAAT
ATTTATTTCCGTACCAAACCTCTGGGACAGACGGGTACTTATGCCCTGGTGGGGTCTAAC
CAGAGCCTGACCGAGATCTGCACCAAGCTGATGGAGCTGAACATGGAGATCCGGGACATG
ATCCGCAGGGCCAGAGTTACCGAGTCTCTACTACTTTTCTTCCAGACTCCAGTGTCTTCT
GGCACTAGTCTCTGACAGGAGCCTCCTGTCCCCACTGGGTTTCAAACCTGGCAGTGTGCC
ATGCTGGGGCAACGTCAATTAGTGTCTTCTCGGCCTTCAAAGGCTTGGACAGACTGTTTC
TCCCTCTTGTTACCTGTAGGGCTTTTTCTAAAGAGGATGGCAGAACTTCCAACGTGTAGC
AATACTATAAGAACCAAGGTAGCTTAGAACGTCTGACAGACTCCACTCATCATGCTGT
GTGGCACAATGTGTTACATTTGACCGAGCATATGCAACTCGCTACTGAAGAAGTGAAGT
CCGTTGCATACCAAAGCCGACTACACTGAACAGTACCTTCCCTTTCTAGAAAACATTTTAG
ATTGGCAAAAGTGCAATGTTTTCTTCACTCAAAAAATTTTATATTCTCAAACATGTATAT
TCTTTCCCTGTCTTGTTCCATTTTTCTTTTCTTTTTCTTTTTCTTTTTCTTTTCTTTCTG
TGGGCTGAGAAAGGGGAGGCAAAATGAAGCTGGCCACTGAAAACCTGTAAGATGGTCAAA
AGCTGACAGCCTGTGTATGTGAAAAGGGAATTGTAAATGGACTGCAATGTAATGTACACT
GTAATTTGAATACAATTACTGTATCTAAAAGGAGCTGCTATGAAGTACCTTTCTTATGTT
GCTAGGCTACTGTTTCTGAAAGCCCTGGATCTCTTTGCACCAAAAATGGTCCAGATAGAC
TCTTTTTTAAGGATCTTGGCTGCTTTTTTACTAGAAGGTTGCTTTTTATGAGCATATTTATAC
TGCTGAAGGATGAGTGTAAATTTTAATTAACCTTTGCCGTTTTGTAGAGAAAACTATTAC
AAGATAAATTTCAAGTCTTTTACCTGTGAGGCATGATATTTTAATATCTGTTTGGATA
GTCAGAAAGTAGAATCATAAAGGTAAAATATGAGTTGTTACTTTGTTTCTTCGATGTCATA
TTTTATGTGTAATATATATGTAAAGGGCCATTCTTAAGTTCTCTCCTTAAACTTAATGCT
GTCAAGTGTGATGTGTGATGTGAACTTGTGCACTGCAGAAAATATTAGAGTTTA
TCTATGTAACCTATTACTCTGTAAATACATTTAAAGTTTTTGTGATGTAAGCTTAATTG
ATATTCTGTTTCAAGCTTTTCTTTAGACTAAAAAAGAAAAAGAAAAAAGAAAAAAGAAAAA

Gene 56. >ENST0000267071 cDNA sequence

GTGGCGGAGCTTCTGAACTAGGCGGAGGCGGAGCCGCTGTGGCACTGCTGCGCCT
CTGCTGCGCCTCGGGTGTCTTTTGCAGCGGTGGGTGCGCGCGGAGAGCGTGAGGGGA
CAGATTTGTGACCGGCGCGGTTTTTGTGAGCTTACTCCGGCCAAAAAGAACTGCACCTC
TGGAGCGGACTTATTTACCAAGCATTGGAGGAATATCGTAGGTAAAAATGCCTATTGGAT
CCAAAGAGAGGCCAACATTTTTTGAATTTTAAAGACACGCTGCAACAAAGCAGATTTAG
GACCAATAAGTCTTAATTGGTTTTGAAGAACTTTCTTCAGAAGCTCCACCCTATAATTCTG
AACCTGCAGAAAGATCTGAACATAAAAAACAATTACGAACCAACCTATTAAAACTC
CACAAAGGAAACCATCTTATAATCAGCTGGCTTCACTCCAATAATATTCAAAGAGCAAG
GGCTGACTCTGCCGCTGTACCAATCTCCTGTAAAAGAAATAGATAAATTCAAATTAGACT
TAGGAAGGAATGTTCCCAATAGTAGACATAAAAGTCTTCGCACAGTGAAAACCTAAATGG

FIGURE 1 (CONT'D)

ATCAAGCAGATGATGTTTTCTGTCCACTTCTAAATTCTTGTCTTAGTGAAAGTCCTGTTG
 TTCTACAATGTACACATGTAAACACCACAAAGAGATAAGTCAGTGGTATGTGGGAGTTTGT
 TTCATACACCAAAGTTTGTGAAGGGTCGTGAGACACCAAACATATTTCTGAAAGTCTAG
 GAGCTGAGGTGGATCCTGATATGTCTTGGTCAAGTTCCTTAGCTACACCACCCACCCTTA
 GTTCTACTGTGCTCATAGTCAGAAATGAAGAAGCATCTGAAACTGTATTTCTCATGATA
 CTACTGCTAATGTGAAAAGCTATTTTTCCAATCATGATGAAAGTCTGAAGAAAAATGATA
 GATTTATCGCTTCTGTGACAGACAGTGAAAAACAAATCAAAGAGAAGCTGCAAGTCATG
 GATTTGGAAAAACATCAGGGAATTCAATTAAGTAAATAGCTGCAAAGACCACATTGGAA
 AGTCAATGCCAAATGTCCTAGAAGATGAAGTATATGAAACAGTTGTAGATACCTCTGAAG
 AAGATAGTTTTTTCATTATGTTTTTCTAAATGTAGAACAAAAATCTACAAAAAGTAAGAA
 CTAGCAAGACTAGGAAAAAATTTTCCATGAAGCAAACGCTGATGAATGTGAAAAATCTA
 AAAACCAAGTGAAAGAAAAATACTCATTTGTATCTGAAGTGGAA CCAAATGATACTGATC
 CATTAGATTCAAATGTAGCAAATCAGAAGCCCTTTGAGAGTGGAA GTGACAAAATCTCCA
 AGGAAGTTGTACCGTCTTTGGCCTGTGAATGGTCTCAACTAACCTTT CAGGTCTAAATG
 GAGCCCAGATGGAGAAAAATACCCCTATTGCATATTTCTTCATGTGACCAAATATTTT CAG
 AAAAAGACCTATTAGACACAGAGAAACAAAGAAAGAAAGATTTTCTTACTTCAGAGAATT
 CTTTGCCACGTATTTCTAGCCTACCAAATCAGAGAAGCCATTAAATGAGGAAACAGTGG
 TAAATAAGAGAGATGAAGAGCAGCATCTTGAATCTCATA CAGACTGCATTCTTGCAGTAA
 AGCAGGCAATATCTGGAACCTTCTCCAGTGGCTTCTTCATTT CAGGGTATCAAAAAGTCTA
 TATT CAGAATAAGAGAATCACCTAAAGAGACTTTCAATGCAAGTTTTT CAGGT CATATGA
 CTGATCCAAACTTTAAAAAAGAAACTGAAGCCTCTGAAAGTGGACTGGAAATACATACTG
 TTTGCTCA CAGAAGGAGGACTCCTTATGTCCAAATTTAATTGATAATGGAAGCTGGCCAG
 CCACCACCA CACAGAATTCTGTAGCTTTGAAGAATGCAGGTTTAATATCCACTTTGAAAA
 AGAAAACAAATAAGTTTATTTATGCTATACATGATGAAACATCTTATAAAGGAAAAAAA
 TACCGAAAGACCAAATCAGAACTAATTAAGTGTTCAGCCAGTTTGAAGCAAATGCTT
 TTGAAGCACCCTTACATTTGCAAATGCTGATT CAGGTTTATTGCATTCTTCTGTGAAAA
 GAAGCTGTTCA CAGAATGATTCTGAAGAACCAACTTTGTCTTAAGTACTCTTTTGGGA
 CAATTCTGAGGAAATGTTCTAGAAATGAAACATGTTCTAATAATACAGTAATCTCTCAGG
 ATCTTGATTATAAAGAAGCAAATGTAATAAGGAAAAACTACAGTTATTTATTACCCAG
 AAGCTGATTCTCTGTGCATGCCTGCAGGAAGGACAGTGTGAAAATGATCCAAAAAGCAAAA
 AAGTTTCAGATATAAAGAAGAGGTCTTGGCTGCAGCATGTCACCCAGTACAACATTCAA
 AAGTGGAATA CAGTGATACTGACTTTCAATCCCAGAAAAGTCTTTTATATGATCATGAAA
 ATGCCAGCACTCTTATTTTAACTCCTACTTCCAAGGATGTTCTGTCAAACCTAGTCATGA
 TTTCTAGAGGCAAAGAATCATACAAAATGTGAGACAAAGCTCAAAGGTAACAATTATGAAT
 CTGATGTTGAATTAACCAAAAATATTTCCCATGGAAAAGAATCAAGATGTATGTGCTTTAA
 ATGAAAATTATAAAAACGTTGAGCTGTTGCCACCTGAAAAATACATGAGAGTAGCATCAC
 CTTCAAGAAAGGTACAATTCAACCAAAACACAAATCTAAGAGTAATCCAAAAAATCAAG
 AAGAACTACTTCAATTTCAAAAATAACTGTCAATCCAGACTCTGAAGAACTTTTCTCAG
 ACAATGAGAATAATTTTGTCTTCCAAGTAGCTAATGAAAGGAATAATCTTGCTTTAGGAA
 ATACTAAGGAACCTTCATGAAACAGACTTGACTTGTGTAAACGAACCCATTTTCAAGAACT
 CTACCATGGTTTTATATGGAGACACAGGTGATAAAACAAGCAACCCCAAGTGTCAATTAAAA
 AAGATTTGGTTTTATGTTCTTG CAGAGGAGAAACAAAAATAGTGTAAGCAGCATATAAAAA
 TGACTCTAGGTCAAGATTTAAAATCGGACATCTCCTTGAATATAGATAAAAATACCAGAAA
 AAAATAATGATTA CATGAACAAATGGGCAGGACTCTTAGGTCCAATTTCAAATCACAGTT
 TTGGAGGTAGCTTCAGAACAGCTTCAAATAAGGAAATCAAGCTCTCTGAACATAACATTA
 AGAAGAGCAAAATGTTCTTCAAAGATATTGAAGAAACATATCCTACTAGTTTAGCTTGTG
 TTGAAATTGTAAATACCTTGGCATTAGATAATCAAAAGAACTGAGCAAGCCTCAGTCAA
 TTAATACTGTATCTGCACATTTACAGAGTAGTGTAGTTGTTTCTGATTGTAAAAATAGTC
 ATATAACCCCTCAGATGTTATTTTCCAAGCAGGATTTTAATTCAAACCATAATTTAACAC
 CTAGCCAAAAGGCAGAAATTA CAGAACTTTCTACTATATTAGAAGAATCAGGAAGTCAGT
 TTGAATTTACTCAGTTTGA AAAACCAAGCTA CATATTGCAGAAGAGTACATTTGAAGTGC
 CTGAAAACCAGATGACTATCTTAAAGACCCTTCTGAGGAATGCAGAGATGCTGATCTTC
 ATGTCATAATGAATGCCCCATCGATTGGTCAGGTAGACAGCAGCAAGCAATTTGAAGGTA
 CAGTTGAAATTAAACGGAAGTTTGCTGGCCTGTTGAAAAATGACTGTAAACAAAAGTGCTT

FIGURE 1 (CONT'D)

CTGGTTATTTAACAGATGAAAATGAAGTGGGGTTTAGGGGCTTTTATTCTGCTCATGGCA
 CAAAACCTGAATGTTTCTACTGAAGCTCTGCAAAAAGCTGTGAAACTGTTTAGTGATATTG
 AGAATATTAGTGAGGAACTTCTGCAGAGGTACATCCAATAAGTTTATCTTCAAGTAAAT
 GTCATGATTCTGTTGTTTCAATGTTTAAAGATAGAAAATCATAATGATAAACTGTAAGTG
 AAAAAATAATAAATGCCAACTGATATTACAAAATAATATTGAAATGACTACTGGCACTT
 TTGTTGAAGAAATTACTGAAAATTACAAGAGAAAATACTGAAAATGAAGATAACAAATATA
 CTGCTGCCAGTAGAAATTCTCATAACTTAGAATTTGATGGCAGTGATTCAAGTAAAAATG
 ATACTGTTTGTATTATAAAGATGAAACGGACTTGCTATTTACTGATCAGCACAAATAT
 GTCTTAAATTATCTGGCCAGTTTATGAAGGAGGGAAACACTCAGATTAAAGAAGATTTGT
 CAGATTTAACTTTTTTGGAGTTGCGAAAGCTCAAGAAGCATGTCTGTTAATACTTCAA
 ATAAAGAACAGTTAACTGCTACTAAAACGGAGCAAAATATAAAGATTTTGGACTTCTG
 ATACATTTTTTTCAGACTGCAAGTGGGAAAAATATTAGTGTGCGCAAAGAGTCATTTAATA
 AAATTGTAAATTTCTTTGATCAGAAACGAGAAGATTGCATAACTTTTCTTAAATTCTG
 AATTACATTCTGACATAAGAAAGAACAAAATGGACATTCTAAGTTATGAGGAAACAGACA
 TAGTTAAACACAAAATACTGAAAGAAAGTGTCCAGTTGGTACTGGAAATCAACTAGTGA
 CCTTCCAGGGACAACCCGAACGTGATGAAAAGATCAAAGAACCTACTCTATTGGGTTTTT
 ATACAGCTAGCGGGAAAAAGTTAAAATTGCAAAGGAATCTTTGGACAAAGTGAAAAACC
 TTTTTGATGAAAAAGAGCAAGGTACTAGTGAAATCACCAGTTTTCAGCATCAATGGGCAA
 AGACCCTAAAGTACAGAGAGGCCTGTAAAGACCTTGAATTAGCATGTGAGACCATTGAGA
 TCACAGCTGCCCCAAAGTGTAAGAAATGCAGAATTCTCTCAATAATGATAAAAACTTG
 TTTCTATTGAGACTGTGGTGCCACCTAAGCTCTTAAGTGATAATTTATGTAGACAACTG
 AAAATCTCAAAACATCAAAAAGTATCTTTTTGAAAGTTAAAGTACATGAAAATGTAGAAA
 AAGAAACAGCAAAAAGTCTGCAACTTGTTACACAAATCAGTCCCCTTATTAGTCATTG
 AAAATTGAGCCTTAGCTTTTTACACAAGTTGTAGTAGAAAACTTCTGTGAGTCAGACTT
 CATTACTTGAAGCAAAAAAATGGCTTAGAGAAGGAATATTTGATGGTCAACCAGAAAGAA
 TAAATACTGCAGATTATGTAGGAAATTATTTGTATGAAAATAATTCAAACAGTACTATAG
 CTGAAAATGACAAAATCATCTCTCCGAAAAACAAGATACTTATTTAAGTAAAGTAGCA
 TGTCTAACAGCTATTCTACCATTCTGATGAGGTATATAATGATTGAGGATATCTCTCAA
 AAAATAAACTTGATTCTGGTATTGAGCCAGTATTGAAGAATGTTGAAGATCAAAAAACA
 CTAGTTTTTCCAAAGTAATATCCAATGTAAAAGATGCAATGCATACCCACAACTGTAA
 ATGAAGATATTTGCGTTGAGGAACTTGTGACTAGCTCTTACCCTGCAAAAATAAAAATG
 CAGCCATTAAATTGTCCATATCTAATAGTAATAATTTTGAAGTAGGGCCACCTGCATTTA
 GGATAGCCAGTGGTAAAATCGTTTTGTGTTTCAATGAAACAATTAAAAAAGTGAAAGACA
 TATTTACAGACAGTTTTCAGTAAAGTAATTAAGGAAAACAACGAGAATAAATCAAAAATTT
 GCCAAACGAAAATTATGGCAGGTTGTTACGAGGCATTGGATGATTGAGAGGATATTCTTC
 ATAACTCTCTAGATAATGATGAATGTAGCACGCATTACATAAGGTTTTTGTGACATTC
 AGAGTGAAGAAATTTTACAACATAACCAAAATATGTCTGGATTGGAGAAAGTTTCTAAAA
 TATCACCTTGTGATGTTAGTTTGGAACTTCAGATATATGTAAATGTAGTATAGGGAAGC
 TTCATAAGTCAGTCTCATCTGCAAAATACTTGTGGGATTTTTAGCACAGCAAGTGGAAAAT
 CTGTCCAGGTATCAGATGCTTCATTACAAAACGCAAGACAAGTGTTTTCTGAAATAGAAG
 ATAGTACCAAGCAAGTCTTTTCCAAAGTATTGTTTAAAAGTAACGAACATTGAGACCAGC
 TCACAAGAGAAGAAAATACTGCTATACGTACTCCAGAACATTTAATATCCCAAAAAGGCT
 TTTCATATAATGTGGTAAATTCTCTGCTTTCTCTGGATTTAGTACAGCAAGTGGAAAGC
 AAGTTTTCCATTTTAGAAAGTTCTTTACACAAAGTTAAGGGAGTGTTAGAGGAATTTGATT
 TAATCAGAACTGAGCATAGTCTTCACTATTACCTACGTCTAGACAAAATGTATCAAAAA
 TACTTCTCGTGTGATAAGAGAAAACCCAGAGCACTGTGTAACTCAGAAATGGAAAAAA
 CCTGCAGTAAAGAATTTAAATTATCAAATAACTTAAATGTTGAAGGTGGTTCTTCAGAAA
 ATAATCACTCTATTAAAGTTTCTCCATATCTCTCTCAATTTCAAACAGACAAACAAAGT
 TGGTATTAGGAACCAAAGTGTCATTGTTGAGAACATTGATGTTTTGGGAAAAGAACAGG
 CTTACCTAAAAACGTAAAAATGGAAATTGGTAAAACTGAACTTTTTCTGATGTTCTGT
 TGAACCAATATAGAAGTTTGTCTACTTACTCCAAAGATTGAGAAAATCTTTGAAA
 CAGAAGCAGTAGAAATTGCTAAAGCTTTTATGGAAGATGATGAACTGACAGATTCTAAAC
 TGCCAAGTCATGCCACACATTCTCTTTTACATGTCCCGAAAATGAGGAAATGGTTTTGT
 CAAATTCAAGAATTGGAAAAAGAAGAGGAGAGCCCTTATCTTAGTGGGAGAACCTCAA

FIGURE 1 (CONT'D)

TCAAAAGAACTTATTAAATGAATTTGACAGGATAATAGAAAATCAAGAAAAATCCTTAA
 AGGCTTCAAAAAGCACTCCAGATGGCACAATAAAGATCGAAGATTGTTTATGCATCATG
 TTTCTTTAGAGCCGATTACCTGTGTACCCTTTTCGCACAATAAGGAACGTCAAGAGATAC
 AGAATCCAAATTTTACCGCACCTGGTCAAGAATTTCTGTCTAAATCTCATTGTATGAAC
 ATCTGACTTTGGAAAAATCTTCAAGCAATTTAGCAGTTTCAGGACATCCATTTTATCAAG
 TTTCTGCTACAAGAAATGAAAAATGAGACACTTGATTACTACAGGCAGACCAACCAAG
 TCTTTGTTCCACCTTTTAAACTAAATCACATTTTCACAGAGTTGAACAGTGTGTTAGGA
 ATATTAACTTGGAGGAAAAACAGACAAAAGCAAAACATTGATGGACATGGCTCTGATGATA
 GTAAAAATAAGATTAATGACAATGAGATTTCATCAGTTTAAACAAAACAACTCCAATCAAG
 CAGTAGCTGTAACCTTTCACAAAGTGTGAAGAAGAACCTTTAGATTAAATTACAAGTCTTC
 AGAATGCCAGAGATATACAGGATATGCGAATTAAGAAGAAACAAAGGCAACGCGTCTTTC
 CACAGCCAGGCAGTCTGTATCTTGCAAAAAATCCACTCTGCCTCGAATCTCTCTGAAAG
 CAGCAGTAGGAGGCCAAGTTCCCTCTGCGTGTTCATATAACAGCTGTATACGTATGGCG
 TTTCTAAACATTGCATAAAAAATTAAACAGCAAAAATGCAGAGTCTTTTCAGTTTCACACTG
 AAGATTATTTTGGTAAGGAAAGTTTATGGACTGGAAAAGGAATACAGTTGGCTGATGGTG
 GATGGCTCATACCTCCAATGATGGAAAGGCTGGAAAAGAAGAATTTTATAGGGCTCTGT
 GTGACACTCCAGGTGTGGATCCAAAGCTTATTTCTAGAATTTGGGTTTATAATCACTATA
 GATGGATCATATGGAACTGGCAGCTATGGAATGTGCCTTTCCTAAGGAATTTGCTAATA
 GATGCCTAAGCCAGAAAGGGTGCTTCTTCAACTAAAATACAGGCAATATGATACGGAAA
 TTGATAGAAGCAGAAGATCGGCTATAAAAAAGATAATGGAAAGGGATGACACAGCTGCAA
 AAACACTTGTTCTCTGTGTTTCTGACATAATTTTCATTGAGCGCAAATATATCTGAAACTT
 CTAGCAATAAACTAGTAGTGAGATACCCAAAAAGTGGCCATTATTGAACTTACAGATG
 GGTGGTATGCTGTTAAGGCCAGTTAGATCCTCCCTCTTAGCTGTCTTAAAGAATGGCA
 GACTGACAGTTGGTCAGAAGATTATTCTTCATGGAGCAGAACTGGTGGGCTCTCCTGATG
 CCTGTACACCTCTTGAAGCCCCAGAATCTCTTATGTTAAAGATTTCTGCTAACAGTACTC
 GGCCTGCTCGCTGGTATACCAAACCTTGGATTCTTTCCTGACCCTAGACCTTTTCTCTGC
 CCTTATCATCGCTTTTTCAGTGATGGAGGAAATGTTGGTTGTGTTGATGTAATTATTCAA
 GAGCATACCTTATACAGTGGATGGAGAAGACATCATCTGGATTATACATATTTTCGCAATG
 AAAGAGAGGAAGAAAAGGAAGCAGCAAAATATGTGGAGGCCCAACAAAAGAGACTAGAAG
 CCTTATTCACTAAAATTTCAGGAGGAATTTGAAGAACATGAAGAAAAACAACAAAACCAT
 ATTTACCATCACGTGCACTAACAAGACAGCAAGTTTCGTGCTTTGCAAGATGGTGAGAGC
 TTTATGAAGCAGTGAAGAATGCAGCAGACCCAGCTTACCTTGAGGGTTATTTTCAGTGAAG
 AGCAGTTAAGAGCCTTGAATAATCACAGGCAAAATGTTGAATGATAAGAAACAAGCTCAGA
 TCCAGTTGGAAATTAGGAAGGCCATGGAATCTGCTGAACAAAAGGAACAAGGTTTATCAA
 GGGATGTCAACCCGTGTGGAAGTTGCGTATTGTAAGCTATTCAAAAAAGAAAAAGATT
 CAGTTATACTGAGTATTTGGCGTCCATCATCAGATTTATATTCTCTGTTAACAGAAGGAA
 AGAGATACAGAATTTATCATCTTGCAACTTCAAAATCTAAAAGTAAATCTGAAAGAGCTA
 ACATACAGTTAGCAGCGACAAAAAACTCAGTATCAACAACTACCGGTTTTCAGATGAAA
 TTTTATTTTCAGATTTTACAGCCACGGGAGCCCCCTTCACTTCAGCAAATTTTTCAGATCCAG
 ACTTTTCAGCCATCTTGTCTGAGGTGGACCTAATAGGATTTGTGCTTTCTGTTGTGAAAA
 AAACAGGACTTGCCCTTTTCGTCTATTTGTGAGCAGAAATGTTACAATTTACTGGCAATAA
 AGTTTTGGATAGACCTTAATGAGGACATTATTAAGCCTCATATGTTAATTGCTGCAAGCA
 ACCTCCAGTGGCGACAGAAATCCAAATCAGGCCTTCTTACTTTATTTGCTGGAGATTTTT
 CTGTGTTTTCTGCTAGTCCAAAAGAGGGCCACTTTCAAGAGACATTCAACAAAATGAAAA
 ATACTGTTGAGAATATTGACATACTTTGCAATGAAGCAGAAAAACAAGCTTATGCATATAC
 TGCATGCAATGATCCCAAGTGGTCCACCCCACTAAAGACTGTACTTCAGGGCCGTACA
 CTGCTCAAATCATTCCTGGTACAGGAAACAAGCTTCTGATGTCTTCTCCTAATTGTGAGA
 TATATTATCAAAGTCCTTTATCACTTTGTATGGCCAAAAGGAAGTCTGTTTCCACACCTG
 TCTCAGCCAGATGACTTCAAAGTCTTGTAAAGGGGAGAAAGAGATTGATGACCAAAAGA
 ACTGCAAAAAGAGAAGAGCCTTGGATTTCTTGAGTAGACTGCCTTTACCTCCACCTGTTA
 GTCCCATTTGTACATTTGTTTCTCCGGCTGCACAGAAGGCATTTTCAGCCACCAAGGAGTT
 GTGGCACCAATACGAAACACCCATAAAGAAAAAAGAACTGAATTCTCCTCAGATGACTC
 CATTTAAAAAATTCAATGAAATTTCTCTTTTGGAAAGTAATTCAATAGCTGACGAAGAAC
 TTGCATTGATAAATACCAAGCTCTTTTGTCTGGTTCAACAGGAGAAAAACAATTTATAT

FIGURE 1 (CONT'D)

CTGTCA GTGAATCCACTAGGACTGCTCCCACCAGTTCAGAAGATTATCTCAGACTGAAAC
GACGTTGTACTACATCTCTGATCAAAGAACAGGAGAGTTCCCAGGCCAGTACGGAAGAAT
GTGAGAAAAATAAGCAGGACACAATTACAATAAAAAATATATCTAAGCATTGCAAAGG
CGACAATAAATTATTGACGCTTAACCTTTCCAGTTTATAAGACTGGAATATAATTTCAAA
CCACACATTAGTACTTATGTTGCACAATGAGAAAAGAAATTAGTTTCAAATTTACCTCAG
CGTTTGTGTATCGGGCAAAAATCGTTTTGCCCCGATTCCGTATTGGTATACTTTTGCTTCA
GTTGCATATCTTAAACTAAATGTAATTTATTAATACTAATCAAGAAAAACATCTTTGGCTG
AGCTCGGTGGCTCATGCCTGTAATCCCAACACTTTGAGAAGCTGAGGTGGGAGGAGTGCT
TGAGGCCAGGAGTTCAAGACCAGCCTGGGCAACATAGGGAGACCCCCATCTTTACAAAGA
AAAAAAAAGGGGAAAAGAAAATCTTTTAAATCTTTGGATTTGATCACTACAAGTATTAT
TTTACAATCAACAAAATGGTCATCCAACTCAAACCTTGAGAAAATATCTTGCTTTCAAAT
TGGCACT

Gene 57. >ENST00000245361 cDNA sequence

ATGAGCGCGAGGCTGCCGGTGTGTCTCCACCTCGGTGGCCGCGGCTGTTGCTGCTGTGCG
CTGCTCCTGCTGGGGGCGGTTCTGGCCCCGCGCGGAGCGGCGCTTTCTACCTGCCCGGC
CTGGCGCCCGTCAACTTCTGCGACGAAGAAAAAAGAGCGACGAGTGCAAGGCCGAAATA
GAACTATTTGTGAACAGACTTGATTCA GTGGAATCAGTTCTTCTTATGAATACACAGCG
TTTGATTTTTTGCCAAGCATCAGAAGGAAAGCGCCCATCTGAAAATCTTGGTCAGGTACTA
TTCGGGGAAAGAATTGAACCTTCACCATATAAGTTTACGTTTAATAAGAAGGAGACCTGT
AAGCTTGTTTTGTACAAAACATACCATACAGAGAAAGCTGAAGACAAACAAAAGTTAGAA
TTCTTGAAAAAAGCATGTTATTGAATTATCAACATCACTGGATTGTGGATAATATGCCT
GTAACGTGGTGTTACGATGTTGAAGATGGTCAGAGGTTCTGTAATCCTGGATTTCTATT
GGCTGTTACATTACAGATAAAGGCCATGCAAAAGATGCCTGTGTTATTAGTTCAGATTTT
CATGAAAGAGATACATTTTACATCTTCAACCATGTTGACATCAAAATATACTATCATGTT
GTTGAAACTGGGTCCATGGGAGCAAGATTAGTGGCTGCTAAACTTGAACCGAAAAGCTTC
AAACATACCCATATAGATAAAACCAGACTGCTCAGGGCCCCCATGGACATAAGTAACAAG
GCTTCTGGGGAGATAAAAATTGCCTATACTTACTCTGTTAGCTTCGAGGAAGATGATAAG
ATCAGATGGGCGTCTAGATGGGACTATATTCTGGAGTCTATGCCTCATACCCACATTTCAG
TGGTTTTAGCATTATGAATTCCTGGTCATTGTTCTCTTCTTATCTGGAATGGTAGCTATG
ATTATGTTACGGACACTGCACAAAGATATTGCTAGATATAATCAGATGGACTCTACGGAA
GATGCCCAGGAAGAATTTGGCTGGAACTTGTTTCATGGTGATATATTCCGTCCTCCAAGA
AAAGGGATGCTGCTATCAGTCTTTCTAGGATCCGGGACACAGATTTTAATTATGACCTTT
GTGACTCTATTTTTCGCTTGCTGGGATTTTTGTCACTGCAACCGAGGAGCGCTGATG
ACGTGTGCTGTGGTCTGTGGGTGCTGCTGGGCACCCCTGCAGGCTATGTTGCTGCCAGA
TTCTATAAGTCCTTTGGAGGTGAGAAGTGGAACAAATGTTTTATTAAACATCATTTCTT
TGTCTGGGATTGTATTTGCTGACTTCTTTATAATGAATCTGATCCTCTGGGGAGAAGGA
TCTTCAGCAGCTATTTCTTTTGGGACACTGGTTGCCATATTGGCCCTTTGGTTCTGCATA
TCTGTGCCTCTGACGTTTATTGGTGCTACTTTGGTTTTAAGAAGAATGCCATTGAACAC
CCAGTTCGAACCAATCAGATTCCACGTGAGATTCTGAACAGTCGTTCTACACGAAGCCC
TTGCCTGGTATTATCATGGGAGGGATTTTGCCCTTTGGCTGCATCTTTATACAACTTTTC
TTCATTCTGAATAGTATTTGGTGCACACAGATGTATTACATGTTTGGCTTCTTATTTCTG
GTGTTTATCATTTTGGTTATTACCTGTTCTGAAGCAACTATACTTCTTTGCTATTTCCAC
CTATGTGCAGAGGATTATCATTTGGCAATGGCGTTCATTCTTACGAGTGGCTTTACTGCA
GTTTATTTCTTAATCTATGCAGTACACTACTTCTTTTCAAACCTGCAGATCACGGGAACA
GCAAGCACAATTCTGTACTTTGGTTATACCATGATAATGGTTTTGATCTTCTTTCTTTTT
ACAGGAACAATTGGCTTCTTTGCATGCTTTTGGTTTGTACCAAAATATACAGTGTGGTG
AAGGTTGACTGA

Gene 58. >ENST00000332066 cDNA sequence

ATGCCTTGCCGTAGGAAAGTAATTAAGACAGAAAAGTTATCAAGGATTACACCAAAGAC
CATTTGCCAAGGACTATTTTTAAATTGTATCCTCAAGTGAGATTAGCATCTCAGCAAAC
TCAGCCATTGAACAGCAGAGAAACACTAAAATAAAACCTCGTTACCTTCTCCCTGGGAGA
ACCACTGTTAGCAAATATGAAATCATGGAACATCAGAAAAAGAGGAAAGAACAGATGCTT
CAACTTTCTCAGAAAATGTCCATAACTGAAAATTCAGAAATGA

Gene 59. >ENST00000267052 cDNA sequence

FIGURE 1 (CONT'D)

GGTGTGACTGAAGAAATATCAAATGTTTCCTAGTAAGACAGCAACTCAGGACTCTAGGAT
GGAAGAAGGTGTCTGACCGTAAATTACACCTGCAGTGCAACCAGCAGACTAATGGGGATG
AGGTTCTGGTACAAGATGATGAACACCAGTATGTGAGACAATGACTTGGGAGCTGGAATC
AAGGACATGACCAAGAGCAGCAAGAACAAAAGGGAGACTGACACATTGATCACTTTCTCA
ACCTTTGATCTCTTGAGAGGATGGTTTACATTTGAGTAAAGACAGGGGAGTTTGTTCCTCA
GAATGACATACTAGTCTGCAGGATGAATTTTATACTGACATTGCACCTTGGACTGCAAC
TAGGACTTTTCACTGGAATCAGAGAAAGAGTTTTTGAAGAAAACCTGGGCATAGGCTCAGCAA
AACCAAAACAGAAGAGGAACAGAAAAAGAAAACAAAAGCAGAACAGTCAGAATAGAATCAT
GGAGGAAAACCTATTAGAATTTCTTAAGTGATCTTACACCGGGAGATCAGGACCCATCTCA
GAGTGAAGAGGAAGACATTGAAAAGACCAGAAGAGAATCAGAATATCCCTTCATTGATGG
TCTACAAAATGAAGTCGGAGATTTTGTGACTGGATATAAAGAAAAAGATGGAAAAATAA
AGATCCTAAAGACAGTTTTCCAAAACGTTATGTCTATAGTTGAATTAGACAAACACCCAAA
GAATTACCTCTCTAAGGAAGGTGATAACTTGTTCGTAAGTTTGTACTGAGGCCAAATGA
AATCTCCGTTACTTGTCCAATACTGACTCAAAACCTTTCTGTGTAACTGATGACTG
CTCTGGCATGAAGGTAGAAAAGCATATTAGAAATAGGCATACCATAGCATTAGACACCCA
GGACCTTTCTGCGGAACTTCATGCTTATTTATGAAGAAGAGAGAAATAGTAGATAAAAA
TCTCTCACATGAACCCATTCTGTGCCATCAACATGGAATCAGAATGTGAGATAAAGTTTT
AAGAGAGGAACAAGTGTATACAATAAATCAATCACTGGGCTTTTTTCAACCAATTT
ATCTGATGAAGATTTACAGCTGGGCTCTGACAGACAGCCCTATTTTGGTAGCTGGCCTGC
AGGACCTCATAAGTTTATATGTGAACAGAGACCAAAGAAAGATAGAGCATGTAAGTTGGC
TGGTCCTGACAGCAGGGGGCAATGGATTCAAATGATCTTCACTTCGGTGGCAGCATCAGA
ACCAGGAAACAATCCAGAAATATTGACAGACAACTACTGATAGGAAATGAAGATTTTTTC
ACCTCCACCTGAACTATGGATTCAATCATAGAAACAAACCTCTTCAGAAGCTGCTTACC
TCAACCGGATATACAAAGAATGCCTTAGAATCAACAAAAATAAGAAAAGGAGGAAGAA
AAGGATTTTCAATTTGGTACCAAATTTTGACTTATTAGGACAGAGTCGTATCGGTGTAAA
AGAAAGGGAGAAATGTGACCTGTAAACAAAAAACCATGGACTAAAAATTACTTTGGGAGA
AGAAAAAGATAGAATTTTCAAGAAAGGAACAGTGAAGAGGAGAATAAACAAAACTTATGAC
CTTTGATCATCATCCATTGTGGTTTTACCTTGATATTATCAAAGCTACCCCTTTAAATAT
TGATGGACAGCGTTATTCTCATTGCCTGTCAATTAACAGACTAAGGTGCTCTGCATCTTT
ATACAAAAATTATATTCTTTCTTTTGTGCTACATAATTTATCTAGTATTTGGAAGCCATC
TTTTACAAACAAGAACTGTTTTTGACTTTTCAATCTCAGACAAGAGTAGGTAATAAACT
AAATGATGCAGGGTTTATTTCTCCAGAAATTTTACATAGTCATCCTGATACTTCGTGCTC
TTTGGGAGTCACTTCTGATTTTCACTTTTTAAATGAAAGGTTTGATAGAAAGCTGAAAAG
ATGGGAAGAACCTAAGGAATTACCAGCTGAGGACAGCCAAGACTTAACAAGCACTGACTA
CCGTTCCCTTGAGCTACCATTATCACAAAGGGTTTGCCTTTCAATTAGTAAAGCTTTTTGG
ATCTCCAGGCGTTCCAATGGAATCCTTGTTCCTGATGACTATGTGGTTCCCTTGACTG
GAAGACACTAAAGATGATCTACTTGCAATGGAAGATGTGAGTGGAGAAAAGACAGAAGAA
GATTGGTTGAAAAATGAAAATTCCTTGAACTTTGAGTTCTGCTGTCTTCATGGTACTGCT
GAAGATCATGATCACGGAGAAAAGTCAGAGTGCTCAGTGCCAACCAAGGGATTCTTTCC
AGAGACGTACCCGTTGGATACCAAAATTAGTTTGGATAATCTGTTCAACCATTCTTGATA
AGTTATCTGAATAATAAAAAAACTCAACAGA

Gene 60. >ENST00000306588 cDNA sequence

ATGGAGGACAGTTTTCTTCAATCTTTTGGGAGGCTGAGCCTCCAGCCCCAGCAGCAGCAG
CAGCGGCAGCGGCCGCCCCGCGCCCCCGCGGGGACACCTCCTCGCCGCCACAGCTTT
AGGAAACACCTCTACCTCCTGCGAGGCCTCCCGGGCTCCGGGAAAACCTACACTGGCCAGA
CAATTGCAGCATGACTTTCCAGGGCCCTGATTTTTCAGCACGGATGATTTTTTTCTTCAGG
GAAGATGGTGCCTATGAGTTCAATCCTGACTTCCTGGAGGAAGCTCATGAATGGAAACAA
AAAAGAGCAAGAAAAGCAATGAGGAATGGCATATCCCCATTATTATTGATAATACCAAC
CTCCACGCCTGGGAAATGAAGCCCTATGCAGTCATGGTATTTTCAGACCGAAACAAAAGAAT
CTTTTCAGGCTGGAAATGGACATGGTAGTTTTTCAGGCCAGAAATGAAGAAACATTTCATGG
TGTCTCAAGAGAAAAAATCCACCGAATGAAAGAACGGTATGA

Gene 61. >ENST00000267044 cDNA sequence

ATGAGGAATGGCATATCCCCATTATTATTGATAATACCAACCTCCACGCCTGGGAAATG
AAGCCCTATGCAGTCATGGCACTTGAAAATAACTATGAAGTTATATTCCGAGAACCTGAC

FIGURE 1 (CONT'D)

ACTCGCTGGAAATTC AACGTTCAAGAGTTAGCAAGAAGAAACATT CATGGTGTCTCAAGA
GAAAAAATCCACCGAATGAAAGAACGGTATGAACACGATGTTACTTTT CACAGTGTGCTT
CATGCAGAAAAGCCAAGCAGAATGAACAGAAACCAGGACAGGAATAATGCATTGCCTTCC
AACAATGCCAGATACTGGAATTCCTACACAGAGTTTCCAAACCGGAGGGGCCACGGTGGA
TTTACAAATGAGAGCTCCTATCACAGAAGGGGCGGTTGTCACCATGGATATTAG

Gene 62. >ENST00000325202 cDNA sequence

ATGGCTGACGGTAAGGCTGGGAAGGACTCCGGAAAGGCCAAGACAAAGGCGGTTTCCCGC
TCGCAGAGAGCCGGCTTGCACTTCCAGAGGGCTGTATT CATCAACACCTGAAATCTAGG
ACGACGGGTACAGACATGTGGGTGCAACTGCCGCTGTGTACAGCGCAGCCATCCTGGAG
TACCTCACCGCAGAGGGACTTGAAGTGGCAGGAAATGCATCAAAGACTTAAAGGTAAAG
ATTACCCCTCGTCACTTGCAACTTGCTATTCTGTCAGATGAAGAATTGGATCTCATCAAG
GCTACAATTGCTGGTGGTGGTGTATTCCACACATCCACAAATCTCTGATTGGGAAGAAA
GGACAACAGAAGACTGTCTAA

Gene 63. >ENST00000301931 cDNA sequence

ACTTCAGTTTGGACAACACTACTCACAGCTACTACACAGAGACCCGAACGAGTCACTGATAT
ACACCTGGACCACCACCAATGGATATACAAATGGCAAACAATTTTACTCCGCCCTCTGCA
ACTCCTCAGGGAAATGACTGTGACCTCTATGCACATCACAGCACGGCCAGGATAGTAATG
CCTCTGCATTACAGCCTCGTCTT CATCATTGGGCTCGTGGGAACTTACTAGCCTTGGTC
GTCATTGTTCAAAA CAGGAAAAAATCAACTCTACCACCCTCTATTCAACAAATTTGGTG
ATTTCTGATATACTTTTTACCACCGCTTTGCCTACACGAATAGCCTACTATGCAATGGGC
TTTGACTGGAGAATCGGAGATGCCTTGTGTAGGATAACTGCGCTAGTGTTTTACATCAAC
ACATATGCAGGTGTGAACCTTTATGACCTGCCTGAGTATTGACCGCTTCATTGCTGTGGTG
CACCTCTACGCTACAAACAAGATAAAAAGGATTGAACATGCAAAGGCGTGTGCATATTT
GTCTGGATTCTAGTATTTGCTCAGACACTCCCACTCCTCATCAACCCTATGTCAAAGCAG
GAGGCTGAAAGGATTACATGCATGGAGTATCCAACTTTGAAGAACTAAATCTCTTCCC
TGGATTCTGCTTGGGGCATGTTT CATAGGATATGTACTTCCACTTATAATCATTCTCATC
TGCTATTCTCAGATCTGCTGCAACTCTTCAGAACTGCCAAACAAAACCCACTCACTGAG
AAATCTGGTGTAAACAAAAGGCTCTCAACACAATTATTCTTATTATTGTTGTGTTTGT
CTCTGTTTTCACACCTTACCATGTTGCAATTATTCAACATATGATTAAGAAGCTTCGTTTC
TCTAATTTCTGGAATGTAGCCAAAGACATT CGTTCCAGATTTCTCTGCACTTTACAGTA
TGCCTGATGAACCTCAATTGCTGCATGGACCTTTTATCTACTTCTTTGCATGTAAAGGG
TATAAGAGAAAGGTTATGAGGATGCTGAAACGGCAAGTCAGTGTATCGATTTCTAGTGCT
GTGAAGTCAGCCCCTGAAGAAAATTCACGTGAAATGACAGAAACGCAGATGATGATACAT
TCCAAGTCTTCAAATGGAAAGTGAAATGGATTGTATTTGGTTTATAGTGACGTAAACTG
TATGACAACTTTG CAGGACTTCCCTTATAAAGCAAAATAATTGTTTCAGCTTCCAATTAG
TATTCCTTTTATATTTCTTTT CATTGGGCACCTTTCCCATCTCCAACCTCGGAAGTAAGCCCAA
GAGAACAACATAAAGCAAACAACATAAAGCACAAATAAAATGCAAATAAATATTTTCAATTT
TTATTTGTAAACGAATACACCAAAGGAGGCGCTCTTAATAACTCCAATGTAAAAAGTT
TTGTTTTAATAAAAAATTTAATTATTATTTCTTGCCAACAAATGGCTAGAAAGGACTGAA
TAGATTATATATTGCCAGATGTTAATACTGTAACATACTTTTTAATAACATATTTCTTA
AATCCAAATTTCTCTCAATGTTAGATTTAATTCCCTCAATAACACCAATGTTTTGTTTTG
TTTCGTTCTGGGT CATAAACTTTGTTAAGGAACTCTTTTGAATAAAGAGCAGGATGCT

Gene 64. >ENST00000245300 cDNA sequence

CAGCAATTAAAGTCAGCCAGCACCAACTCCGACGCCAAGCGTTACACTGGAACTACTT
TTTAAAGCAACAAAAGAGTCTAAAACAAATACAACTTTCTTAAATACACTGTTTCCAG
AAAGAGCTATTTTAAACAGAAGCAACTCAAAGATATCCCTTCGACAGAAGTGGAAGTGCTG
AAAAATGCTCATCTCTCACACAGACTTTTGATGGACAGGAGGTGCTGCTTTCTGTGAACC
ACTGAAGTAGAGCAGCTGAAATCACAAAACCTGGAAGACTTGGCTTTACGTACTCCCAAT
TGTGCACTAGAAAACAGCTCATCTATTGCTCTAACAGTCTAGTTCTTGATCTGCTGACCA
TGACACAAAACATTGCTGTTTCTCAACCTATGATAATTTAAAGAGAACATAAGGTAATAA
GTATCATGCCTACCAACAAGCTGTAAATGATCAACCTGAACAATCAAGATCAACCTGTC
CCTTTTAAACAGCTCACATCCAGATGAATACAAAATTGCAGCCCTTGCTTTCTATAGCTGT
ATCTTCATAATTGGATTATTTGTTAACATCACTGCATTATGGGTTTTTCAGTTGTACCACC
AAGAAGAGAACCACGGTAACCATCTATATGATGAATGTGGCATTAGTGGACTTGATATTT

FIGURE 1 (CONT'D)

ATAATGACTTTACCCCTTTGGAATGTTTTATTATGCAAAGATGAATGGCCATTTGGAGAG
TACTTCTGCCAGATTCTTGGAGCTCTCACAGTGTCTTACCCAAGCATTGCTTTATGGCTT
CTTGCCTTTATTAGTGCTGACAGATACATGGCCATTGTACAGCCGAAGTACGCCAAAGAA
CTTAAAAACACGTGCAAAGCCGTGCTGGCGTGTGTGGGAGTCTGGATAATGACCCTGACC
ACGACCACCCCTCTGCTACTGCTCTATAAAGACCCAGATAAAGACTCCACTCCCGCCACC
TGCCTCAAGATTTCTGACATCATCTATCTAAAAGCTGTGAACGTGCTGAACCTCACTCGA
CTGACATTTTTTTTTCTTGATTCTTTGTTTCATCATGATTGGGTGCTACTTGGTCATTATT
CATAATCTCCTTCACGGCAGGACGTCTAAGCTGAAACCCAAAGTCAAGGAGAAGTCCATA
AGGATCATCATCACGCTGCTGGTGCAGGTGCTCGTCTGCTTTATGCCCTTCCACATCTGT
TTCGCTTTCTGATGCTGGGAACGGGGGAGAACAGTTACAATCCCTGGGGAGCCTTTACC
ACCTTCTCATGAACCTCAGCACGTGTCTGGATGTGATTCTCTACTACATCGTTTCAAAA
CAATTTTCAGGCTCGAGTCATTAGTGTCTGCTATACCGTAATTACCTTCAAGCATGCGC
AGAAAAAGTTTCCGATCTGGTAGTCTACGGTCACTAAGCAATATAAACAGTGAAATGTTA
TGAATAATAAGGTTCTTTCAATCCCATCAAAATTCACCTTCACTAACTACTCTGGC
GTCAATGGATATTCTGTATAATACTATCAAGTCCCTTTTCTCTTGAAAAAATAAATTCAT
TATCTTCATTTTAAAACTTATATAAAACATTTTTGTGAATT

Gene 65. >ENST00000267068 cDNA sequence

CGGAGGTGAGGTTTTGTTACCGCGATTCTGAGAGGTGGGCTTTTAGTCCCTCCAGACCTCG
GCTTTAGTGCTGTCTCCGCTTTTCTTTACCTTCACAGAGGTTTCGTGTCTTCTTAAAGA
AGGTTTTATTGGGAGGTAAAGGTCAATGCGTAGGGGTAGAGTAAGATGTCTTATGGTGAA
ATTGAAGGTAAATTTCTTGGGACCTAGAGAAGAAGTAACGAGTGAGCCACGCTGTAAAAA
TTGAAGTCAACCACAGAGTCGTATGTTTTTCACAATCATAGTAATGCTGATTTTACAGA
ATCCAAGAGAAAACCTGGAAATGATTGGGTCCCTGTGACCATCATTGATGTGAGGACAT
AGTTATTTGTCAGGAGAAACAAATCAAACTACAGATTTGCATAGACCTTTGCATGATGAG
ATGCCTGGTAATAGACCAGATGTTATTGAATCCATTGATTCAAGGTTTTACAGGAAGCA
CGTCTCCATTAGTATCCGCAGACGATGAGATATATAGCAAGTAAAGCATTATATAGGA
CCCATTTACAAACCCCTGAGAAAAAGAAACGTAATGAAGGGAGGAATGAGGCACATGTT
CTAAATGGTATAAATGACAGAGGAGGACAAAAAGAGAAACAGAAATTTAACTCTGAAAA
TCAGAGATTGACAATGAATTATTCCAGTTTTACAAAGAAATTGAAGAGCTTGAAAAGGAA
AAAGATGGTTTTGAGAACAGTTGTAAAGAATCTGAACCTTCTCAGGAACAATTTGTTCCA
TTTTATGAGGGTCATAATAATGGTCTCTTAAACCTGATGAAGAAAAGAAAGATCTTAGT
AATAAAGCTATGCCATCACATTGTGATTATCAGCAGAACTTGGGGAATGAGCCAGACAAA
TATCCCTGTAATGGACAAGTAATACCTACATTTTGTGACACTTCATTTACTTCTTTCAGG
CCTGAATGGCAGTCAGTATATCCTTTTATAGTGCCCTATGGTCCCCCTCTTCCCAGTTTG
AACTATCATTTAAACATTTCAGAGATTGAGTGGTCCACCAAATCCACCATCAAATATTTTC
CAAGCCCAAGATGACTCTCAGATACAAAATGGATATTATGTAAATAATTGTCATGTTAAC
TGGAATTGCATGACTTTTGTATCAGAACAAATGAATATACTGACTGTAGTGAGAATAGGAGT
AGTGTTTCATCCCTCTGGAAATGGCTGCAGTATGCAAGATCGATATGTGAGTAATGGTTTC
TGTGAAGTCAGAGAAAGATGCTGGAAAGATCATTGTATGGACAAGCATAATGGAACAGAC
AGGTTTTGTGAACCAGCAGTTTTCAAGAGGAAAAGTTAAATAAATTGCAGAAGTTACTTATT
CTTTTAAAGAGGTCTGCCTGGTTCTGGGAAAAACAATTGTCTCGAATTCTGCTTGGTCAG
AATCGTGATGGCATTGTGTTTCAGCACTGATGACTATTTTACCATCAAGATGGGTACAGG
TATAATGTTAATCAACTTGGTGATGCCATGACTGGAACAGAAACAGAGCAAAACAAGCT
ATCGATCAGGGAAGATCTCCAGTTATAATAGATAACACTAATATACAAGCTTGGGAAATG
AAGCCATATGTGGAAGTGGCCATAGGAAAAGGATACAGAGTAGAGTTTTCATGAACCTGAA
ACTTGGTGGAAATTTGATCCTGAAGAATTAGAAAAGAGGAATAAACATGGTGTGTCTCGA
AAGAAGATTGCTCAGATGTTGGATCGTTATGAATATCAAATGTCCATTTCTATTGTAATG
AATTCAGTGGAAACCATCACACAAAAGCACACAAAGACCTCCTCCTCCACAGGGGAGACAG
AGGTGGGGAGGCTCTCTTGGCTCACATAATCGTGTCTGTGTCAAAATAATCATTTAAATT
AGCTATTTTCAGCTAACACATTTGTTGTTGCACTTGAAAAAGAGTTAGTGAGCCTGTCTT
GGAGTTTAAAGTAGTTTCAAATAAAAAAAGGCTACAGTGCCTCACAAAGGATGTTCCAGC
AAGTTGTTTTAAATTTCCAGCAAGTTGTTAAAGTGTAATAAATAATATGAAATTGTATT
TTAAATGTTTTTATATTCTCTTGTGTAATACTCTTGGCTGTTATGGAAGCACCTGAGTA
ATAGAGTGGTGGGTAGGAGCTAGGATGTTTTTCTACAATCGAATTTTAAACTAATTTATC

FIGURE 1 (CONT'D)

TATTTTATAGACACTATTGAACAGTTTTTTAATAGTTCATATCTAAATCTAACTTTTCAT
 AAAACTTTACGGTTTTTCTTCACTACCTTAAATATGCAAGAAATACTGACTTGGTATAG
 GGTACCTTAGTTTTCTCTATTATTAGACAGGTAAAATTATATTTAGCTGATTGATCTG
 TGTGACAAAATTATTTCTTAGCTATAATCAGCACATCACTTAGTTCAAACAAAATTCCCC
 AGCAAATGTTAGATAGTAGGTATATCAGTCACCTGGGGAGTTTTCTTCATAATATGCATA
 TTCATCTTGTAATGCATACATAGTTATCATCCTCCTTCTCAACCCATCTCCCTAACCCCA
 CATGCTTGCCAGTTCTTGAAGGGATAAAGTGATTCTAATAATGTTTTACTTCTCTCTGTT
 CAATTTAATGTGATATAATTCTAGTATAAAAAATATTTTGGACAGTTGCTTAACATGGTCA
 TAAGAGGATTTGTACTATAGAATATCTTCTAGTACTAATTTTTCTGTAGAGCAAATTATA
 TTTCTCTCACTGGATAGTTTTTTAGATGTGTTTTCTTCATATAAAATTAAAACTGAGATGG
 AATTC

Gene 66. >ENST00000255289 cDNA sequence

CGGGGTGAGATACCTGGGGGTGGGGAGGGGCCACAGAAGACATTGCCAGACACGCTGTC
 CCGGCAGCTTTCCCTGCAACTGACAGTACCTCAGAGGGAAAGAGTGTGCGTCATCCTAAA
 CCATCTACCTCAGAAAGCAAGCAGAGCACTCCCTCAGAGACCCAAACAGTGGGGGCACAT
 GTACTGCAGGTGTGCAGTGAGCACACATCAATTCCGCCCATCCAGAGCCTGCTCTGAAT
 TTGACTTTGGCATCGAAGGAAATCCCAAGTAAACTGGAAGCACAATTAGGTGAGGGAAAG
 GGAGAGGCCAAGCTGGATCTGAAATATGTTCCCTCCAGGAGAGTTGAACAGGAGGGAAAG
 GCAGCCCAGGAAGGGTATCTGGGATGCCACAAGGAAGAGAATCTGTGAGCCTTGAGGGGA
 AGGGATCCATGTGGGGAAGCACACCCGGAAGCCACCGATGCACCTTGGCCATCTGCTGAAC
 AGTGACCTCCACCACCTTGGGGTGGGAAGAGGCAACTGTGAAGAGAAGAGAGGAGTCAAC
 CCAGGGGAGCAGGATTCTCTCCACACCACCCCAAACAGGGCTCTGCTTCTTAGGAGGG
 GCTGATAATCAGCCCCTGGCAAAATTTCAACATGTGCAGGTGAGAAGTTGGGTGAAAGG
 ACATCCAGCAGCTTTTTACCAGGTGACAGTCATGTGGCTTTTATTCTAATAATCTGACT
 GACAGCAAGCCCTTGGATGTCAATTGAGGAGGAAAGGCGGTTGGGCAGTGGGAATAAGGAC
 AGTGTTATGGTTTTGGTGTTCATCCTTCTGTTGGAGAGAAACAAGACGGAGGTGCCTGAG
 CCCCTGGACCCTCAAAGTGGCCGCTCAGAAGCACGGGAAAGCAAAGAGGTCAACCATCT
 GTTGCTGAAAACAGGAACCTTCTAGAGAATGCAGATAAGATTGAAAGCACCTCAGCAAGA
 GCAGATTCAAGTTCTCAATATTCCAGCACCCCTCCACCCAGAGACAACCTGTGAACATGACC
 TACCAGCCTACAACACCCAGTAGCAGTTTTTCAGGATGTTAGCGTGTTCCGGTATGGATGCG
 GGGTCCCCCTTGGTAGTTCCACCCCTACTGATAGTGCACGCTTGTTGAACACGTCCCCC
 AAAGTGCCTGACAAGAACACTTGCCCCAGTGGGATCCCCAAGCCTGTCTTCAACATTTCC
 AAGGACACACCTTCTCGCAGGAGGGAATGGAGAATATCAGGTTGAAAAACAGAGGAG
 AGGACAGAACTAAGCCCATCATTATGCCCAAGCCCAAGCATGTGAGGCCCAAGATCATC
 ACCTACATCAGGAGGAATCCCCAGGCCCTGGGCCAGGTGGACGCCTCGCTGGTTCAGTG
 GGGCTTCCATATGCCCCGCCACATGTACCATGCCTCTTCCCCACGAAGAGAAGGCAGCA
 GGTGGTGACCTGAAGCCATCTGCCAACCTCTATGAGAAATTCAAGCCAGACCTGCAGAAG
 CCAAGGGTCTTCAGTTCCGGATTGATGGTGTCTGGAATCAAGCCCCCGGGACATCCTTTC
 AGTCAAATGAGTGAAAAGTTTTTGCAGGAGGTTACAGACCACCTGGAAAAGAAGAGTTT
 TGTTCTCCTCCCTATGCTCATTATGAAGTCCCTCCAACCTTTCTATCGGTGAGCCATGCTC
 CTTAAGCCCCAGCTAGGATTGGGTGCAATGTCCCGTTTACCATCTGCAAGAGCAGGATT
 CTGATTGCAAGTCAGAGGTCTTCAGCGAGCGCCATCCACCCACCAGGACCCATAACAACA
 GCCACAGTCTCTACAGTTCCGATCCTTCAGATTTAAAGAAAGCTTCCAGTTCAAATGCT
 GCAAAATCCAATCTCCCGAAATCTGGTCTCCGTCTCCCGGATACTCACGTCTCCCGGCA
 GCCAACTGGCGGCATTTGGCTTTGTCCGGAGCTCCAGCGTCTCCTCAGTCTCCAGCACC
 CAGTCCGGGGACAGTGACAGCCAGAGCAGGGCCGGCCAGCCACCCGTTCAACCTTTGGG
 AATGAAGAACAGCCAGTTCTGAAGGCATCTCTGCCTTCTAAGGACACACCCAAAGGGGGCC
 GGCCGGGTGGCCCCCTCCAGCATCTCCAGTGTGACAGCACCCCGCAGGAGTTTACTTCCA
 GCGCCAAAATCCACTTCCACACCCGCTGGAAACAAAGAAAGATGCTCAGAAAGATCAAGAT
 ACGAATAAACCTGCTGTTTCATCTCCTAAGAGAGTAGCAGCTTCAACCAACCAAGCTTCAT
 TCACCAGGATACCCAAAGCAGAGGACTGCGGCAGCTCGAAATGGGTTTCCGCCCAAGCCG
 GACCCGAGGCCCCGTGAGGCTGAGCGGCAGCTGGTGCTGCGGCTGAAGGAGCGGTGTGAG
 CAGCAGACCAGACAGCTGGGCGTTGCGCAAGGGGAGCTGAAGAGGGCCATCTGCGGCTTT
 GATGCCCTCGCCGTGGCCACGCAGCATTTCTTTAGAAAGAATGAAAGTGCCCTTGTGAAA

FIGURE 1 (CONT'D)

GAAAAAGAGCTGTCAATCGAACTTGCAAA CATCAGGGATGAAGTTGCCTTCCATACAGCA
AAGTGCAGAGAACTACAAAAGGAGAAGGAGGAGCTGGAGAGGCGTTTCGAGGACGAGGTG
AAGAGGCTGGGCTGGCAGCAGCAGGCCGAGCTCCAGGAGCTGGAGGAGCGGCTGCAGCTG
CAATTGAGGGCGGAAATGGCGCGCCTGCAGGAGGAGCACGGTGACCAGCTGCTGAGCATC
CGGTGTCAACACCAGGAGCAGGTGGAAGATCTCACCGCCAGCCATGATGCTGCTCTCCTA
GAGATGGAAAATAACCACACAGTTGCCATCACAATCCTGCAGGATGACCACGACCACAAA
GTCCAAGAATTGATGTCCACTCATGAGCTTGAAAAGAAAGAATTGGAAGAAAATTTTGAA
AACTGCGGCTGTCAATTGCAGGACCAGGTGGACACGCTGACCTTCCAGAGCCAGTCTCTG
CGGGACAGAGCCCGCGCTTCGAAGAGGCCTTGAGGAAGAACACAGAGGAGCAGCTGGAG
ATTGCATTGGCTCCTTATCAGCACTTGGAAGAAGACATGAAGAGTCTGAAGCAGGTATTA
GAAATGAAGAATCAGCAAATACACGAGCAAGAAAAGAAGATTCTTGAGCTGGAAAAGCTG
GCAGAAAAGAACATTATCCTAGAAGAAAAGATCCAGGTTCTCAACAGCAGAACGAAGAC
CTCAAAGCAAGGATTGACCAAAACACAGTTGTCAACAGACAGCTGTGCGAGGAAAATGCT
AACCTCCAGGAATATGTTGAGAAGGAAACCCAGGAGAAGAAGAGATTGAGCCGAACCAAT
GAAGAGCTGCTTTGGAAGCTCCAACTGGGGACCCGACCAGTCCGATTAAACTCTCGCCC
ACATCTCCCGTTTACCGCGGCTCCTCCTCGGGGCCCTCCTCTCCGGCCAGAGTCAGCACA
ACACCCAGATGACGCCACTACACGGCCTGCGGGAGCTCCGGCTTCTCGTCCTCCGGTCTC
CACCTGAGGGAGCACCGACCCGGTGCCGCCGGAGCTGGCCCTGTGCGCATGCTCAGTAG
CTGCGAATGCATCCTAGGCGCGTCCTCCTCTGATCCCCGTGTAAGACTGCCCTGGTGTG
GCACTTAGGAATGTGTAAATGGTAAAGTCTGATGTGCAAACGTTTTTACATAGTTAGAGC
CAAAAGAAAGACACTTGCAATTGTTCTTGAGCAATGAACTTTCACTGCAGAATTTAGGT
TAGTTACAAAAGCTCAGTTTTCAATATACATTGAATAATCATTGTGTACTGCACCGATA
TGTGTGTATATTTAGATATACGTATATACACATGCTGCGGTTCTGAATTTCAATTTTTTAT
AACATGAAGTGCTGACATATTTTAGTGAAGGTGAGCAGTTTTCTAACTTGTGCCTAAGAA
TTATTGGGAAATGAAAATGCATTTCTATCTAGCTTCCAGGAATATTTCTACCCAAAATA
G

Gene 67. >ENST00000310558 cDNA sequence

ATGACTCTTAATGAGCATGCTGCCTTCAAGCATCTGTTTAACAAAGCACATCTTGACCCG
CCCTTAATCCATTTAACTCTGAGTGGACACAGCACATGTTTCAGAGAGCACAGGGTTGGG
GGTAAGGTTACAGATCAACAGGATCCCAAGGCAGAAGAATTTTTCTTAGTACAGAACAAA
ATGAAAAGTCTCCCATGTCTACTTCTTTCTACACAGACACGGCAACCATCCGATTTCTCA
ATCTTTTCCCCACCTTTCCCCCTTTCTATTCCACAAAACCGCCATTGTCATCCTGGCCC
GTTCTCAATGAGCTGTTGGGTACACCTCCCAGACGGGGTGGTGGCCGGGCAGAGGGGCTC
CTCACTTCCCAGTAG

Gene 68. >ENST00000245302 cDNA sequence

AGAGTTTCCGCACCCGGGAGGGAGATGCGGCCGGGGCTCAGGCTCCTTGACAGTTGTAATT
TAGATTGAGAGAGTGGTTTATCCTTTGACTGGAAAAGAAAAGTAGCTGCAGTATTTCCCC
AGCACTTGCTGAGAGCATGCCGTATGCCAGGCTGTGAGGCTCGAGAGACAAGCAGTGGAA
GAGTTGCGGCCTGTTTCATCTCTGGATTGTAAATCTGAGCCTCCTTCTGGCCCCCTGGAAG
GGGACAGCATCACCATGGAATGATTCTTAACCAGCATAATGCTGGAGCCGGGAGCCACCA
ACCTGCAGTTTTTCAGAATGGCCGTGTTGGACACTGATTTGGATCACATTCTTCCATCTTC
TGTTCTTCTCCATTCTGGGCTAAGTTAGTAGTGGGATCGGTTGCCATTGTGTGTTTTGC
ACGCAGCTATGATGGAGACTTTGTCTTTGATGACTCAGAAGCTATTGTTAACAATAAGGA
CCTCCAAGCAGAAACGCCCTGGGGGACCTGTGGCATCATGACTTCTGGGGCAGTAGACT
GAGCAGCAACACCAGCCACAAGTCTACCGGCCTCTCACCGTCCTGACTTTTCAGGATTAA
CTACTACCTCTCGGGAGGCTTCCACCCCGTGGGCTTTCACGTGGTCAACATCCTCCTGCA
CAGTGGCATCTCTGTCTCATGGTGGACGTCTTCTCGGTTCTGTTTGGCGGCCTGCAGTA
CACCAGTAAAGGCCGGAGGCTGCACCTCGCCCCCAGGGCGTCCCTGCTGGCCGCGCTGCT
GTTTGCTGTCCATCCTGTGCACACCGAGTGTGTTGCTGGTGTGTGCGGCCGTGCAGACCT
CCTGTGTGCCCTGTTCTTCTTGTATCTTTCTTGGCTACTGTAAAGCATTTAGAGAAAAG
TAACAAGGAGGGAGCGCATTCTTCCACCTTCTGGGTGCTGCTGAGTATCTTTCTGGGAGC
AGTGGCCATGCTGTGCAAAGAGCAAGGGATCACTGTGCTGGGTTTAAATGCGGTATTTGA
CATCTTGGTGATAGGCAAATTCAATGTTCTGGAAATTGTCCAGAAGGTACTACATAAGGA
CAAGTCATTAGAGAATCTCGGCATGCTCAGGAACGGGGGCCTCCTCTTCAGAATGACCCT

FIGURE 1 (CONT'D)

GCTCACCTCTGGAGGGCTGGGATGCTCTACGTGCGCTGGAGGATCATGGGCACGGGCCC
GCCGGCCTTCACCGAGGTGGACAACCCGGCCTCCTTTGCTGACAGCATGCTGGTGAGGGC
CGTAAACTACAATTACTACTATTATTGAATGCCTGGCTGCTGCTGTGTCCCTGGTGGCT
GTGTTTTGATTGGTCAATGGGCTGCATCCCCCTCATTAAAGTCATCAGCGACTGGAGGGT
AATTGCACTTGCAGCACTCTGGTTCTGCCTAATTGGCCTGATATGCCAAGCCCTGTGCTC
TGAAGACGGCCACAAGAGAAGGATCCTTACTCTGGGCTGGGATTTCTCGTTATCCATT
TCTCCCCGCGAGTAACCTGTTCTTCCGAGTGGGCTTCGTGGTCGCAGAGCGTGTCTCTA
CCTCCCCAGCGTTGGGTACTGTGTGCTGCTGACTTTTGGATTTCGGAGCCCTGAGCAAACA
TACCAAGAAAAAGAACTCATTGCCGCTGTCTGCTGGGAATCTTATTATCAACACGCT
GAGATGTGTGCTGCGCAGCGGCGAGTGGCGGAGTGAGGAACAGCTTTTCAGAAGTGCTCT
GTCTGTGTGTCCCCTCAATGCTAAGGTTCACTACAACATTGGCAAAAACCTGGCTGATAA
AGGCAACCAGACAGCTGCCATCAGATACTACCGGGAAGCTGTAAGATTAAATCCCAAGTA
TGTTTCATGCCATGAATAATCTTGAAATATCTTAAAAGAAAGGAATGAGCTACAGGAAGC
TGAGGAGCTGCTGTCTTTGGCTGTTCAAATACAGCCAGACTTTGCCGCTGCGTGGATGAA
TCTAGGCATAGTGAGAAATAGCCTGAAACGGTTTGAAGCAGCAGAGCAAAGTTACCGGAC
AGCAATTAACACAGAAGGAAATACCCAGACTGTTACTACAACCTCGGGCGTCTGTATGC
AGATCTCAATCGCCACGTGGATGCCTTGAATGCGTGGAGAAATGCCACCGTGTGAAACC
AGAGCACAGCCTGGCCTGGAAACAATGATTATACTCCTCGACAATACAGGTAATTTAGC
CCAAGCTGAAGCAGTTGGAAGAGAGGCACTGGAATTAATACCTAATGATCACTCTCTCAT
GTTCTCGTTGGCAAACGTGCTGGGGAAATCCCAGAAATACAAGGAATCTGAAGCTTTATT
CCTCAAGGCAATTAAGCAAATCCAAATGCTGCAAGTTACCATGGTAATTTGGCTGTGCT
TTATCATCGTTGGGGACATCTAGACTTGGCCAAGAAACACTATGAAATCTCCTTGACGCT
TGACCCACGGCATCAGGAACCTAAGGAGAATTACGGTCTGCTGAGAAGAAAGCTAGAACT
AATGCAAAAGAAAGCTGTCTGA

Gene 69. >ENST00000255484 cDNA sequence

GGAAACTTGTCTCTGCGTTGTGGGGAGGACGCGCGCTCGCGCGGGATTTTCAAGCGTAG
GCCCCCGGGAACCTGAGCTGCCATGAGCCTCTGGGTGGACAAGTATCGGCCCTGCTCCTT
GGGACGGCTGGACTATCAAGGAGCAGGCGGCCCCAGCTGCGGAACCTGGTGCAGTGTGG
TGACTTTTCTCATCTGTAGTGACGGACCATCAGGTGCTGGAAAAAGACAAGAATTAT
GTGTATTCTACGTGAACCTTTATGGTGTGGAGTGGAAAAATTGAGAATTGAACATCAGAC
CATCACAACCTCCATCTAAAAAATAATTGAAATTAGCACCATTTGCAAGTAACTACCACCT
TGAAGTTAATCCTAGTGATGCTGGAAATAGTGACCGAGTAGTCATTGAGGAGATGTTGAA
AACAGTGGCACAATCAACAACCTTGAAACAACTCTCAAAGGGATTTTAAAGTGGTATT
ATTGACAGAAGTTGACAACTCACCAAAGATGCTCAGCATGCCTTGCGAAGAACCATGGA
AAAATATATGTCTACCTGCAGATTGATCTTGTGCTGCAATTCTACATCTAAAGTGATCCC
ACCTATTTCGTAGTAGGTGCTTGGCGGTTTCGTGTGCTGCTCCCAGCATTGAAGATATTTG
CCACGTGTTATCTACTGTGTGTAAGAAGGAAGGTCTGAATCTTCTTCACAACTGGCTCA
TAGACTTGACAGAGAAGTCTTGTAGAAATCTCAGAAAAGCCCTGCTTATGTGTGAAGCCTG
CAGAGTGCAACAATATCCTTTTACTGCAGATCAAGAAATCCCTGAGACAGATTGGGAGGT
GTATCTGAGGGGAGACTGCAAATGCTATTGTGAGTCAAGCAAACTCCACAAAGGCTCCTTGA
AGTTTCGTGGAAGGCTGTATGAGCTTCTAACTCATTGTATTCTCTGAGATAATAATGAA
GGGCCTTCTCTCAGAACTGTTACATAATTGTGATGGACAACCTGAAAGGGGAGGTGGCACA
AATGGCAGCTTACTATGAGCATCGTCTACAGCTGGGTAGCAAAGCCATTTATCACTTGA
AGCGTTTGTGGCCAAATTATGGCACTTTATAAGAAGTTATGGAGGATGGATTGGAAGG
CATGATGTTCTGACTTCTGTGAGTTATTCTTGCAAAGATTTCTCAGTATCAGTATTTACA
TACAGCTTATATTAAGAGCTGTGGGTAAATTAAGTGAATTAATCATGTGCTATTTGC
GTTTTTTTTGGTAATAACTTCTCTGTGAACTATTAATCATCCTCTGAGTTAAATAATTGCT
CCTATACTATTGAAGTATGTAGTTTTGTACATAACTTAGAGACTTTAGAGTCTAAGAAAA
TGATCTTAATTTACTTTAAGCATTGGTTATTCAAGTATTATTGTTGATCCTCCTATTCT
CTTCCGTCTAATCTCTCACCTGCTAAAGGAGATTACACATTAGAAAGCAAAGATTATTT
TCATTTATCCAGATGACCATTTTCTGCCACAGGTAAATGATTGTTTGACACACCATTAT
ATTTAATTTCTAGTTTCTCTCAATGAATAATTGTATTTTTGTAGGAAATGTAAGATTTTCAT
TCTGAAACATAATTATTGGTATGGACAAATTTGCAGATAACATTTCTGTTGAGGCTGCAG
ATTTCCAACCTTTTATTTTCAAGTGGTTTCAAGTATTAGGTGGTACTAAGAAATAAGCA

FIGURE 1 (CONT'D)

TGTTTTCTACTAATTTAAGTACTTGAGACTCTTGAAGAAAATTGAGAATGAAGTTCTGGAG
AAAGGTATGTTACTGTAGTAATTACTCTTTGAACAGGTTTTGTGTTTTGTCATTAGCTCT
GCCCTTTTTAATTAAATATTTTGGTTTATGGACCAAAGGTTTACTTGACAAATTTGTGT
GACAGACTCCGAACAATTCCTTTACTACGAAGTATAATTTATAAAATAAAATATAACCAT
TTTAAGGGTACAGTTTGTATTTTGGACAGTGAACTATGATCCCAATCAAGGTATAGATG
CCGTACCCCCAAAAGTTCCCTCCATATCCCTTTGCAGTCAGTTTATCCCTACCCTGGCC
CAGATGATCACTGATCTTGTATTATAGATGAGTTTTGCCAGTTCAAGAATTTAATGGAA
TCAGATATTGTAAGCATTCTTGTGTAATACTTCATTCTCTCTATTATTGAGATTATCC
ATATTGTTGAATGTTTCTAGTTAATGTTTATTGTTCAATATTTTGTATATACTTTTA
AAGCCTATTCACTTGCTGATGGATCTTTGGTTTGTTCAGGTTTGGTTATTATGAATAA
AGTTGCTGTGAATACTTACGTGT

Gene 70. >ENST00000310576 cDNA sequence

GGCCTCACCATCTCCTCTTTCTTCTCCACCTCTTTGACAAGAAGCAGATGCACATTCTG
ATGGTTGGATTGGATGCCGCTGGCAAGACGACCATTCGGTATGAAGTGAAGTTAGGGGAG
ATAGTCACCACCATTCCTACCGTTGGCTGCAATGTGGAAGCGGTAGACTATAAAAAATT
CGTTTACAGTATGGGATGCTGGTGGTCAAGATAGAATTAGGCCTCTCCGGAAGTATTAC
TTCCCAAATACCAATATCTTATATTTGTGGTAGATAGCAATAATCGTGAAAGAATTAAG
GAGGTAGCAGGTGAGCTGCAGAAATTGCTTCTGGTAGATGAGTTGAGAGAGGCAGTGCTG
CTGCTTTTTGAGAATCAAGGATTTGCCAAATGCTCTTCGATCTCCTCCTAACAGGACAT
TCTGTTCAAGCCACGTGCATAACACAAGGAACTGGTCTGTGTGAGAGACCTGACCAGCTG
TCAAAGGAGCTTTCAAAA

Gene 71. >ENST00000255315 cDNA sequence

GGAAACGGAAGTGAGCGGCGGGGTCGACTGACGGTAACGGGGCAGAGAGGCTGTTTCGCAG
AGCTGCGGAAGATGAATGCCAGAGGACTTGGATCTGAGCTAAAGGACAGTATTCCAGTTA
CTGAACCTTTAGCAAGTGGACCTTTTGAAAGTCATGATCTTCTTCGAAAGGTTTTCTT
GTGTGAAAAATGAACCTTTGCCTAGTCATCCCTTGAATTATCAGAAAAAATTTCCAGC
TCAACCAAGATAAAATGAATTTTTCCACACTGAGAAACATTACAGGCTCTATTTGCTCCGC
TAAATTAACAGATGGAATTAAGGCAGTGACAGAGGTTACAGCGTCTTCCATTTCTTTCAA
GCTCAAATCTTTCACTGGATGTTTTGAGGGGTAATGATGAGACTATTGGATTTGAGGATA
TTCTTAATGATCCATCACAAGCGAAGTCATGGGAGAGCCACACTTGATGGTGGAAATATA
AAGTTGGTTTTACTGTAATAGTGTGCTGTTTCATGGAAACCGAGGGCTGCATCTTGTTTATA
GTCATCTTTGTACTGTAATTTGATGTACACAACATTAAGAGTACTGACACCTGAGAATTT
CTGCTCAAGTAGTATCAGTGATCATTTAAAATTTGGAGGGGCTTTTGGTTTACAGCCATG
TGACAATTAAGGACTAAAGGGAGATCATGTTAAAGCTCTTAATTTATATTAAGACAGT
AGCCTTTGTCTTTAAAAAAGTTGTTGCTCATGAATATTATAAAATGATCTACAGGTTTCA
ATTCAACCTGTTTCTAGGTTTTTTTTGTAAATTTAGTTTTGATTAAAGCATTATAAGCATT
GAGTCTATAAACTTTATAGTAGCATCTTTTCAAGATAAACATTTTTAATTGATTTTCAAGTGG
CAACTCTCAAATTGATTACAATATGAGATATATCAGTGTGCTCCATTAACTCATAAGA
ATAATATTTACTGTGTGAGTCTATTTTAGGATTATAGTTATTGTTTATTATTTTCAAGT
TGAAAAGTAGAAGTTCCAAGGTTTTGATTTTGGTCTGGTCTTTAAGTGAAAAATTAAGC
AACCAGTAGATGTAGGTAACTTTTACTTTCATAGACTTAATATGTAATTAATATATTGC
CAAGCAACACTGTAAAGAAAAGTAAACTCATTTTTTCTTGTCTTAATTTATATATTA
CAAGATACTGTAAGGTATTCTTTATGAAGTTGATATATAAAATTTACATTTTTTAGAACA
TTAGTGAATGGATCATCTTTTACAATTAAGTATATTTTGAATTATCAGTTTCTTAG

Gene 72. >ENST00000266943 cDNA sequence

CGGCGGACAGCGATGCTCAGCTGGCTGCGGCCGAGTCATCGCCTAGCGCTGGCAGGGCCG
CTGACCGACCGACGAGGCGCGGATTGGCCGATTGTCCACTGCGCAGAAGGAGCAGCTGC
TCCGCGCCCCGCGCGCGCGCTGAGGCCGAGGTCCGACGGGCCGCGGGGAAGCCGAGGG
CTGCCGGAAGACCTGCAGGTGTCACTCGGGACGCGGAAGTGCCTTGCCGAGGTTTGCT
TTACAATACGCTTGAGACTCCCCGACAAGCGTAATTTGGTTCGAGTTTCGACGGGAAAGTAC
TCTCCCCACCCAGCGCGCGCGCTAGTCCGAGGTTACTGTCCCCGCGCGTCTCTGT
TGCCCCAGTCCAGAGGCTGCCCTTGAACCCGGGCGCGCACGAGCGCAGGGCATCCGAGGC
GACAGCCCCTGGCAGCGCCGACCTGTACCCAGCCTGGCAGGAAGACTGTAATCGTGGGA
ATACAGCTACCTACCCAGGCAATATGAAGATTTTATTGTAGAACCTGCCATTTTCTTAA

FIGURE 1 (CONT'D)

GTGCATTTGCTATGACTTTGACCGGTCCACTGACAACGCAATATGTTTATCGGAGAATAT
GGGAAGAACTGGCAACTACACTTTTTTTCATCTGATAGCAATATTTCTGAGTGTGAAAAAA
ACAAAAGCAGCCCAATTTTTTGCATTCCAGGAGGAAGTTCAGAAAAAAGTGTACGTTTTTA
ATCTGCAGATGGACATAAGTGGATTAATTCTGGTCTAGTGTCTACATTCACTACTTTTGT
CTATTAGTGATCACTACGGACGAAAATTCCCTATGATTTTGTCTTCCGTTGGTGCTCTTG
CAACCAGCGTTTGGCTCTGTTTGTCTTTGCTATTTTGCCTTTCCATTCCAGCTTTTGATTG
CATCTACCTTCATTGGTGCATTTTGTGGCAATTATACCACATTTTGGGGAGCTTGCTTTG
CCTATATAGTTGATCAGTGTAAAGAACAACAACAAAAACAATTCGAATAGCTATCATTG
ACTTTCTACTTGGACTTGTACTGGACTAACAGGACTGTCTCTGGCTATTTTATTAGAG
AGCTAGGTTTTTGGTGGTCTGTTTCTAATTATTGCTGTGTCTCTTGGCTGTTAATTTGATCT
ATATTTTATTTTTTCTCGGAGATCCAGTGAAAGAGTGTTCATCTCAGAATGTTACTATGT
CATGTAGTGAAGGCTTCAAAAACCTATTTTACCAGAACTTACATGCTTTTTAAGAATGCTT
CTGGTAAGAGACGATTTTTGCTCTGTTTGTACTTTTTTACAGTAATCACTTATTTTTTTG
TGGTAATTTGGCATTGCCCAATTTTTTATCCTTTATGAATTGGATTACCACTCTGCTGGA
ATGAAGTTTTTATAGGTTATGGATCAGCTTTGGGTAGTGCTCTTTTTTGGCTAGTTTCC
TAGGAATATGGCTTTTTTCTTATTGTATGGAAGATATTCAATATGGCCTTCATTGGGATTT
TTACCACGATGACAGGAATGGCTATGACCGCGTTTGCCAGTACAACACTGATGATGTTTT
TAGCCAGGGTGCCGTTCTTTTTCACTATTGTGCCATTCTCTGTTCTACGGTCCATGTTGT
CAAAAGTGGTTCGTTGACTGAACAAGGTACCCTGTTTGTCTGTATTGCTTTCTTAGAAA
CACTTGGAGGAGTCACTGCAGTTTCTACTTTTAATGGAATTTACTCAGCCA CTGTTGCTT
GGTACCCTGGCTTCACTTTCTGCTGTCTGCTGGTCTGTTACTACTTCCAGCCATCAGTC
TATGTGTTGTCAAGTGTACCAGCTGGAATGAGGGAAGCTATGAACCTTCTTATACAAGAAG
AATCCAGTGAAGATGCTTCAGACAGGTGACTGTGATTTAAACAAACAAAAAAATCTATG
AATGCACATATCATATACCATGACTTCTGAAGACTATAAATGAATTCCACAATCAGTGCT
TCACTGAGAACCAATTTTACCTATCTTTTCTTCTAAACTGAACAGTCAGAGAGACAGCTC
CTGGCTTTAGCTTCTTGTGGTACCACGCACTTTGAGCACTTTGTGCGTATCATGCAATAT
ACTTGCAATACACAGAACAAATTTCAAATACGCCTCACTTTTAGACTTAGAAGAGAAACA
TTAAACCTTAAGGGTGTAAAGGAGGGATCAAGAAACTTGATAAGGTCAAAAGCAATAATCT
CTCTGACATATTCAGGCTCTTACACTGAGACCAAAGAGAAATCTTTACCTCAGTTTCTT
CATCAGCAGAATGGGTTTCTGGCCTCTCTCAGGGATAATTTTGAAGGCATAATGAAAATT
ATGATGAATCACTCATTGGTAGGAAAATAATGATATAAGTTTCAAATATGTATGATTTTA
CCTATACTTGGTAATGCTTTATTTTATAGAGCCTGTTAAGCTGCTATTGATAGTCGGAGC
TTATATACTGTGACTTCTGAAGACTATACATGAATTCACAATCAGTGCTTTGTTGATAC
AAAATCCTTAAAAGGGAGGCACTTTAAAGAATATGTATTTTCACTTTTCTTAATATGTT
TCATCGGTGACAGGCATGATAATTTCTATATGTAATGGGTAATTGGGAAAAAATAGAT
GATAAATAAAATTGCTCTAAAAGAAGTTAAAAAACTGAATGAACAGCTAATACTGGTATAA
AGTAACTAATGTTTGGAGCCAACATTTGTTCTTGTGTGTCAGCAAAAGGATATTCACATTC
CATGATCCCTGGCTGAGAATTCTGCCTCTAGTCTTTCTTACCCAGCTGTTGTCTATCCTT
GTTCAATTATAAATACTGCTAAGGGCATTTTTTAAATACGATCTTGTA CTCTTAAATTT
GAATCCGTCAACACGGTCACTCATAGGAAAATGATCAAACAAGCAAGCCAGTCATGATTT
GACTCCTTCCCATCTCATTTCTTACTGCCTTACGCTCATCCTGAGGTCCACCTTGGTCTC
TAAAAACACCATGTGTTCTCATGCCTCCATGTCTTTTACACACTGTTCCATTGCTCTT
CCTCCACATTACATTGAAACTTTCAAGCCTCAGTCGAAACATTGCTTCTTCTGGATAGC
AGCCTTCTTGACATCCCTCCTCACTCCCCAGTCCCTACAGGGCTTCCATAGCTCTTTGTG
TGCACTTCGATCCCAGCATTTTCCATCGACTTGTAATTGTTTCTGCTACCTGACAATCAT
CGCCTTGAGTACTGGGACAACCTTTGATTACTCATTATATCCTCAATAAATATTTGTTGA
ACT

Gene 73. >ENST00000282397 cDNA sequence

CGGGAGGCTCGGAGCGCGCCAGGCGGACACTCCTCTCGGCTCCTCCCGGCAGCGGCGGC
GGCTCGGAGCGGGCTCCGGGGCTCGGGTGCAGCGGCCAGCGGGCGCCTGGCGGCGAGGAT
TACCCGGGGGAAGTGGTTGTCTCCTGGCTGGAGCCGCGAGACGGGCGCTCAGGGCGCGGGG
CCGGCGGCGGCGAACGAGAGGACGGACTCTGGCGGCCGGGTGCTTGGCCGCGGGGAGCGC
GGGACCCGGGCGAGCAGGCCGCGTCCGCGCTCACCATGGTCAGCTACTGGGACCCGGGGT
CCTGCTGTGCGCGCTGCTCAGCTGTCTGCTTCTCACAGGATCTAGTT CAGGTTCAAAATT

FIGURE 1 (CONT'D)

AAAAGATCCTGAACTGAGTTTAAAAGGCACCCAGCACATCATGCAAGCAGGCCAGACACT
 GCATCTCCAATGCAGGGGGGAAGCAGCCATAAATGGTCTTTGCCTGAAATGGTGAGTAA
 GGAAAGCGAAAGGCTGAGCATAACTAAATCTGCCTGTGGAAGAAATGGCAACAATTCTG
 CAGTACTTTAACCTTGAACAAGCTCAAGCAAACCACTGGCTTCTACAGCTGCAATA
 TCTAGCTGTACCTACTTCAAAGAAGAAGGAAACAGAATCTGCAATCTATATATTTATTAG
 TGATACAGGTAGACCTTTCTGAGAGATGTACAGTGAAATCCCGAAATTATACACATGAC
 TGAAGGAAGGGAGCTCGTCATTCCCTGCCGGGTACGTACCTAACATCACTGTTACTTT
 AAAAAAGTTTCCACTTGACACTTTGATCCCTGATGGAAAACGCATAATCTGGGACAGTAG
 AAAGGGCTTCATCATATCAAATGCAACGTACAAAGAAATAGGGCTTCTGACCTGTGAAGC
 AACAGTCAATGGGCATTTGTATAAGA CAACTATCTCACACATCGACAAACCAATACAAT
 CATAGATGTCAAATAAGCACACCACGCCAGTCAAATTACTTAGAGGCCATACTCTTGT
 CCTCAATTGTACTGCTACCACTCCCTTGAACACGAGAGTTCAAATGACCTGGAGTTACCC
 TGATGAAAAAATAAGAGAGCTTCCGTAAGGCGACGAATTGACCAAAGCAATTCCCATGC
 CAACATATTCTACAGTGTTCTTACTATTGACAAAATGCAGAACAAAGACAAAGGACTTTA
 TACTTGTGCTGTAAGGAGTGGACCATCATTCAAATCTGTAAACACCTCAGTGCATATATA
 TGATAAAGCATTCACTACTGTGAAACATCGAAAACAGCAGGTGCTTGAAACCGTAGCTGG
 CAAGCGGTCTTACCGGCTCTCTATGAAAGTGAAGGCATTTCCCTCGCCGGAAGTTGTATG
 GTTAAAAGATGGGTTACCTGCGACTGAGAAATCTGCTCGCTATTTGACTCGTGGCTACTC
 GTTAATTATCAAGGACGTAAGTGAAGAGGATGCAGGGAATTATACAATCTTGCTGAGCAT
 AAAACAGTCAAATGTGTTTAAAAACCTCACTGCCACTCTAATTGTCAATGTGAAACCCCA
 GATTTACGAAAAGGCCGTGTCTGTTTCCAGACCCGGCTCTCTACCACTGGGCAGCAG
 ACAATCCTGACTTGTACCGCATATGGTATCCCTCAACCTACAATCAAGTGGTTCTGGCA
 CCCCTGTAACCATAATCATTCCGAAGCAAGGTGTGACTTTTGTTC AATAATGAAGAGTC
 CTTTATCCTGGATGCTGACAGCAACATGGGAAACAGAATTGAGAGCATCACTCAGCGCAT
 GGCAATAATAGAAGGAAAGAATAAGATGGCTAGCACCTTGGTTGTGGCTGACTCTAGAAT
 TTCTGGAATCTACATTTGCATAGCTTCCAATAAAGTTGGGACTGTGGGAAGAAACATAAG
 CTTTTATATCACAGATGTGCCAAATGGGTTTCATGTTAACTTGGAAGAAATGCCGACGGA
 AGGAGAGGACCTGAAACTGTCTTGCA CAGTTAAACAAGTTCTTATACAGAGACGTTACTTG
 GATTTTACTGCGGACAGTTAATAACAGAACAAATGCACTACAGTATTAGCAAGCAAAAAT
 GGCCATCACTAAGGAGCACTCCATCACTCTTAATCTTACCATCATGAATGTTTCCCTGCA
 AGATTACAGGCACCTATGCCTGCAGAGCCAGGAATGTATACACAGGGGAAGAAATCCTCCA
 GAAGAAAGAAATTACAATCAGAGATCAGGAAGCACCATACCTCCTGCGAAACCTCAGTGA
 TCACACAGTGGCCATCAGCAGTTCCACCACTTTAGACTGTCTAATGGTGTCCCCGA
 GCCTCAGATCACTTGGTTTAAAAACAACCA CAAAATACAACAAGAGCCTGGAATTATTTT
 AGGACCAGGAAGCAGCACGCTGTTTATTGAAAGAGTCAAGAAGAGGATGAAGGTGTCTA
 TCACTGCAAAGCCACCAACCAGAAGGGCTCTGTGGAAGTTTCAGCATACCTCACTGTTCA
 AGGAACCTCGGACAAGTCTAATCTGGAGCTGATCACTCTAACATGCACCTGTGTGGCTGC
 GACTCTCTTCTGGCTCCTATTAACCTCTTTATCCGAAAATGAAAAGGTCTTCTTCTGA
 AATAAAGACTGACTACCTATCAATTATAATGGACCCAGATGAAGTTCCTTTGGATGAGCA
 GTGTGAGCGGCTCCCTTATGATGCCAGCAAGTGGGAGTTTGCCCGGGAGAGACTTAACT
 GGGCAAATCACTTGGAAGAGGGGCTTTTGGAAAAGTGGTTCAAGCATCAGCATTTGGCAT
 TAAGAAATCACCTACGTGCCGGACTGTGGCTGTGAAAATGCTGAAAGAGGGGGCCACGGC
 CAGCGAGTACAAAGCTCTGATGACTGAGCTAAAAATCTTGACCCACATTGGCCACCATCT
 GAACGTGGTTAACCTGCTGGGAGCCTGCACCAAGCAAGGAGGGCCTCTGATGGTGATTGT
 TGAATACTGCAAATATGGAAATCTCTCCAACCTACCTCAAGAGCAAACGTGACTTATTTTT
 TCTCAACAAGGATGCAGCACTACACATGGAGCCTAAGAAAGAAAAAATGGAGCCAGGCCT
 GGAACAAGGCAAGAAACCAAGACTAGATAGCGTCACCAGCAGCGAAAGCTTTGCGAGCTC
 CGGCTTTCAGGAAGATAAAAGTCTGAGTGATGTTGAGGAAGAGGAGATTCTGACGGTTT
 CTACAAGGAGCCCATCACTATGGAAGATCTGATTTCTTACAGTTTTCAAGTGGCCAGAGG
 CATGGAGTTCCTGTCTTCCAGAAAGTGCAATTCATCGGGACCTGGCAGCGAGAAACATTCT
 TTTATCTGAGAACAACGTGGTGAAGATTTGTGATTTTGGCCTTGCCCGGGATATTTATAA
 GAACCCCGATTATGTGAGAAAAGGAGATACTCGACTTCTCTGAAATGGATGGCTCCTGA
 ATCTATCTTTGACAAAATCTACAGCACCAAGAGCGACGTGTGGTCTTACGGAGTATTGCT
 GTGGGAAATCTTCTCCTTAGGTGGGTCTCCATACCCAGGAGTACAAATGGATGAGGACTT

FIGURE 1 (CONT'D)

TTGCAGTCGCCTGAGGGAAGGCATGAGGATGAGAGCTCCTGAGTACTCTACTCCTGAAAT
CTATCAGATCATGCTGGACTGCTGGCACAGAGACCCAAAAGAAAGGCCAAGATTTGCAGA
ACTTGTGAAAAAAGTAGGTGATTTGCTTCAAGCAAATGTACAAAGGATGGTAAAGACTA
CATCCCAATCAATGCCATACTGACAGGAAATAGTGGGTTTACATACTCAACTCCTGCCTT
CTCTGAGGACTTCTTCAAGGAAAGTATTTAGCTCCGAAGTTTAATTAGGAAGCTCTGA
TGATGTCAGATACGTAAATGCTTTCAAGTTCATGAGCCTGGAAAGAATCAAAACCTTTGA
AGAACTTTTACCGAATGCCACCTCCATGTTTGATGACTACCAGGGCGACAGCAGCACTCT
GTTGGCCTCTCCCATGCTGAAGCGCTTACCTGGACTGACAGCAAACCCAAGGCCTCGCT
CAAGATTGACTTGAGAGTAACAGTAAAAGTAAGGAGTCGGGGCTGTCTGATGTCAGCAG
GCCAGTTTCTGCCATTCCAGCTGTGGGCACGTGAGCGAAGGCAAGCGCAGGTTACCTA
CGACCACGCTGAGCTGGAAAGGAAAATCGCGTGCTGCTCCCCGCCCCCAGACTACAACCTC
GGTGGTCTGTACTCCACCCACCCATCTAG

Gene 74. >ENST00000310319 cDNA sequence

ATGGGGAAAAACAGAACAGAAAACTGGAACTCTAAAACGCAGAGTGCCTCTCCTCCT
CCAAAGGAACGCAGTTCTCACCAGCAACAGAACAAAGCTGGATGGAGAATGATTTTGAC
GAGCTGAGAGAAGAAGGCTTCAGACGATCAAATTACTCTGAGCTACGGGAGGACATTCAA
ACCAAAGGCAAAGAAGTTGAAAACTTTGAAAAAAATTTAGAAGAATGTATAACTAGAATA
ACCAATACAGAGAAGTGCTTAAAGGAGCTGATGGAGCTGAAAAACAAGGCTCGAGAACTA
CGTGAAGAATGCAGAAGCCTCAGGAGCCGATGCGATCAACTGGAAGAAAGGGTATCAGCA
ATGGAAGATGAAATGAATGAATGAAGCGAGAAGGGAAGTTTAGAGAAAAAGAATAAAA
AGAAATGAGCAAAGCCTCCAAGAAATATGGGACTATGTGAAAAGACCAAATCTACGTCTG
ATTGGTGTACCTGAAAAGTGATGTGGAGAATGGAACCAAGTTGGAAAACTCTGCAGGAT
ATTATCCAGGAGAACTTCCCAATCTAGCAAGGCAGGCCAACGTTTCAAGATTAGGAAATA
CAGAGAACGCCACAAAGATACTCCTCGAGAAGAGCAACTCCAAGACACATAATTGTGAGA
TTACCAAAGTTGAAATGAAGGAAAAAATGTTAAGGGCAGCCAGAGAGAAAGGTGCGGTT
ACCCTCAAAGGAAAGCCCATCAGACTAACAGCGGATCTCTCGGCAGAAACCTACAAGCC
AGAAGAGAGTGGGGGCCAATATTGAACATTCTTAAAGAAAAGAATTTTCAACCCAGAATT
TCATATCCAGCCAACTAAGCTTCATAAGTGAAGGAGAAATAAAATACTTTATAGACAAG
CAAATGCTGAGAGATTTTGTGCGCCACCAGGCCTGCCCTAAAAGAGCTCCTGAAGGAAGCG
CTAAACATGGAAAGGAACAACCGGTACCAGCCGCTGCAAAATCATGCCAAAATGTAA

Gene 75. >ENST00000267067 cDNA sequence

ATGGCATTGACAGAGACACAACCACAGCTCCTTTTCAAGCAGACCTGGTCTTAGCCCTCCAG
GTGCTCATGCTTTGGGAGATGACAGAGGCAACAAAGTACTTAAGAGAAGACAACACCCC
CAACGATCTCACTGTATTTCCAGCAAAATACTTGAGTCTTACCCAGGTGAAAAGCCATTG
ACAAAATCTCTGCAACGTGGAGAAGACCCCCAATTTGATCAGGTCATCAGCTCAATGAGC
TCCCTTTCTGAGTACTGCCTGCCTTCCATTCTACGTACATTATTTGACTGCGATGAACAA
CAGCGAGATTATTTAATGGAAAGACGGGACCTCGCCATTGATTTTATTTTTCTTTAGTA
TTAATAGAAGTTTGGAAACAGGGATCCCTAACTTGTCTAATTATACCTACTTAGGTACC
TTGGTCCCAACACTGGCAATATGCATATTGTGGCAGACCTGTATGCAGAAGTCATTGGAG
TGTTGGCACAAGCCAAGTAAATTTCCCTGCTGTAAAGAAGAAATTTATGGCGGAGCTAAAA
GAATTACGGCACAAAGAGCAGAACCCATATGTGGTTCAAAGCATTATCAGCTTAATAATG
GGCATGAAATTCTTTGCAATTAAGATGTATCCAGTGGAGGATTTTGAGGCCTCTCTTCAG
TTTATGCAGGAATGTGCACATTACTTCTCGAGGTCAAAGACAAAGATATCAAGCATGCC
TTGGCTGGGCTTTTTGTTGAAATACTTGTTCAGTTGCTGCTGTTAAAAATGAAGTA
AATGTTCCCTGCCTTAGAAATTTTGTGGAAAGCCTGTATGACACACGCTGGAACTTTCT
TCTCGAAAGAAGCATTCCTTGGCCTTGTACCCCTGGTGACCTGTTTGCTCTGTGTGAGT
CAGAAGCAGCTGTTCTGAACAGGTGGCACATTTTCTCAACAACTGCTTGTCCAACCTT
AAAAACAAAGATCCCAAGATGGCTCGAGTTGCACTGGAATCTCTCTACAGATTACTTTGG
GTTTACATGATTTCGAATTAATGTGAAAGCAACAAGCTACTCAGAGCCGACTTATAACC
ATCATCAACACTTTTCCCCAAAGGGTCCCGCGGTGTGGTACCAAGGGACATGCCTCTG
AACATCTTTGTGAAATCATCCAGTTCATTGCCCAGGAACGTTTAGATTTTGCAATGAAA
GAAATCATTTTTCGATTTTCTTTGTGTGGGAAAACAGCAAAAGCATTAGTCTCAACCCA
GAGAGAATGAACATTGGTTTACGGGCATTCTTGGTCATAGCTGATAGCTTGCAGCAGAAA
GATGGGGAACCTCCCATGCCGGTTACAGGAGCCGTTCTTCTTCAGGAAACACGTTAAGA

FIGURE 1 (CONT'D)

GTAAAGAAAA CATATTTGAGTAAAA CACTAACTGAAGAGGAAG CCAAATGATAGGCATG
TCCTTATATTACTCTCAAGTACGAAAAGCTGTAGACAACATTTTAAGGCACCTTGATAAA
GAAGTAGGAAGGTGTATGATGCTGACTAATGTACAGATGTTAAACAAAGAACCGGAAGAC
ATGATCACGTGA

Gene 76. >ENST00000318671 cDNA sequence

ATGGCCAGCCAGCAGGATTCTGGGCTTCTTTGAGATCAGTATCAAATATTTACTGAAATCC
TGGAGTAATACTTCTCCCGTTGGCAACGGTTACATCAAGCCTCCGGTTCCACCTGCTTCT
GGCACGCACAGGGAGAAAGGGCCGCCAACCATGCTACCCATCAATGTGGACCCAGACAGT
AAACCAGGAGAATATGTCCTCAAAAGTTTATTTGTCAACTTCACCACTCAGGCTGAACGC
AAGATTCGTATCATTATGGCAGAGCCCCTGGAAAAGCCATTGACAAAATCTCTGCAACGT
GGAGAAGACCCCAATTTGATCAG

Gene 77. >ENST00000239887 cDNA sequence

ATGTCGGTGGTGGGGTTGGACGTGGGCTCGCAGAGCTGCTACATCGCGGTAGCCCGGGCC
GGGGGCATCGAGACCATCGCCAATGAGTTTCAGCGACCGGTGCACCCCGTCAGTCATATCA
TTTGATCAAAAAATAGAACAATCGGAGTTGCAGCCAAAAATCAGCAAATCACTCATGCA
AACAATACGGTGTCTAACTTCAAAAGATTTTCATGGCCGAGCATTCAATGACCCCTTCATT
CAAAAGGAGAAGGAAAACTTGAGTTACGATTTGGTTCCATTGAAAAATGGTGGAGTTGGA
ATAAAGGTAATGTACATGGGTGAAGAACATCTATTTAGTGTGGAGCAGATAACAGCCATG
TTGTTGACTAAGCTGAAGGAACTGCTGAAAAACAGCCTCAAGAAACAGTAACAGATTGT
GTTATTTTCAGTCCCCTCCTTCTTTACAGATGCTGAGAGGCGATCTGTGTTAGATGCTGCA
CAGATTGTTGGCCTAAACTGTTTAAGACTTATGAATGACATGACAGCTGTTGCTTTGAAT
TACGGAATTTATAAGCAGGATCTCCCAAGCCTGGATGAGAAACCTCGGATAGTGGTTTTT
GTTGATATGGGACATTCAGCTTTTTCAAGTGTCTGCTTGTGCTTTTAACAAGGGAAAAATTG
AAGGTACTGGGAACAGCTTTTGATCCTTTCTTAGGAGGAAAAAATTCGATGAAAAGTTA
GTGGAACATTTTTGTGCAGAATTTAAACTAAGTACAAGTTGGATGCAAAATCCAAAATA
CGAGCACTCCTACGTCTGTATCAGGAATGTGAAAAACTGAAAAAGCTAATGAGCTCTAAC
AGCACAGACCTTCCACTGAATATCGAATGCTTTATGAATGATAAAGATGTTTCCGGAAAG
ATGAACAGGTCACAATTTGAAGAACTCTGTGCTGAACCTTCGCAAAAGATAGAAGTACCC
CTTTATTCAGTGTGGAACAAACTCATCTCAAAGTAGAAGATGTGAGTGCAGTTGAGATT
GTTGGAGGCGCTACACGAATTCAGCTGTGAAGGAAAGAATTGCCAAATCTTTGGAAAA
GATATTAGCACAACTCAATGCAGATGAAGCAGTAGCCAGAGGATGTGCATTACAGTGT
GCAATACTTTCCCGGCATTTAAAGTTAGAGAATTTTCCGTCAAGATGCAGTTCTTTTT
CCAATATCTCTGATCTGGAACCATGATTGAGAAGATACTGAAGGTGTTTCATGAAGTCTTT
AGTCGAAACCATGCTGCTCCTTTCTCCAAAGTTCTCACCTTTCTGAGAAGGGGGCCTTTT
GAGCTAGAAGCTTTCTATTCTGATCCCCAAGGAGTTCCATATCCAGAAGCAAAAATAGGC
CGCTTTGTAGTTTCAAGATGTTTCTGCACAGAAAGATGGAGAAAAATCTAGAGTAAAAGTC
AAAGTGCAGAGTCAACACCCATGGCATTTCACCATCTCTACGGCATCTATGGTGGAGAAA
GTCCCAACTGAGGAGAATGAAATGTCTTCTGAAGCTGACATGGAGTGTCTGAATCAGAGA
CCACCAGAAAACCCAGACACTGATGCAAAATGAAAAAAGTTGACCAGCCTCCAGAAGCT
AAAAAGCCCAAAATAAAGGTGGTGAATGTTGAGCTGCCTATTGAAGCCAACCTTGGTCTGG
CAGTTAGGGAAAGACCTTCTTAACATGTATATTGAGACAGAGGGTAAGATGATAATGCAA
GATAAATTGGAAAAAGAAAGGAATGATGCTAAAAATGCAGTTGAGGAATATGTGTATGAG
TTCAGAGACAAGCTGTGTGGACCATATGAAAAATTTATATGTGAGCAGGATCATCAAAAT
TTTTTGAGACTCCTCACAGAACTGAAGACTGGCTGTATGAAGAAGGAGAGGACCAAGCT
AAACAAGCATATGTTGACAAGTTGGAAGAATTAATGAAAATTGGCACTCCAGTTAAAGTT
CGGTTTCAGGAAGCTGAAGAACGGCCAAAAATGTTTGAAGAACTAGGACAGAGGCTGCAG
CATTATGCCAAGATAGCAGCTGACTTCAGAAATAAGGATGAGAAATACAACCATATTGAT
GAGTCTGAAATGAAAAAGTGGAGAAGTCTGTTAATGAAGTGATGGAATGGATGAATAAT
GTCATGAATGCTCAGGCTAAAAAGAGTCTTGATCAGGATCCAGTTGTACGTGCTCAGGAA
ATTAAAAACAAAATCAAGGAATTGAACAACACATGTGAACCCGTTGTAACACAACCGAAA
CCAAAATTTGAATCACCCAACTGGAAAGAACTCCAATGGCCCAAATATTGATAAAAAAG
GAAGAAGATTTAGAAGACAAAAACAATTTTGGTGTGTAACCTCCACATCAGAATGGTGAA
TGTTACCCTAATGAGAAAAATTCTGTTAATATGGACTTGGACTAG

Gene 78. >ENST00000320027 cDNA sequence

FIGURE 1 (CONT'D)

GTGCGATACATAAGGCTGAGGAAGTGGGACCTCCCCTTTTGGGTGGTAGTTTCAGCGCCG
GCGCCGGTGTGCGAGCCGCGGCAGAGTGAGGCAGGCAACCCGAGGTGCGGAGCGACCTGC
GGAGGCTGAGCCCCGCTTTCTCCCAGGGTTTCTTATCAGCCAGCCGCGCTGTCCCCGGG
GGAGTAGGAGGCTCCTGACAGGCCGCGGCTGTCTGTGTCTCTTCTGAGTGTGAGAGGAA
CGGCCAGACCCCGCGGGCCGGAGCAGAACGCGGCCAGGGCAGAAAGCGGCGGCAGGAGAA
GCAGGCAGGGGGCCGGAGGACGCAGACCCGAGACCCGAGGCGGAGGCGGACCGCGAGCCGG
CCATGTGCGTGGTGGGGTTGGACGTGGGCTCGCAGAGCTGCTACATCGCGGTAGCCCCGGG
CCGGGGGCATCGAGACCATCGCCAATGAGTTGAGCGACCGGTGCACCCCGTCAGTCATAT
CATTTGGATCAAAAAATAGAACAATCGGAGTTGCAGCCAAAAATCAGCAAATCACTCATG
CAAACAATACGGTGTCTAACTTCAAAGATTTTATGGCCGAGCATTCAATGACCCCTTCA
TTCAAAGGAGAAGGAAAACCTTGAGTTACGATTTGGTTCCATTGAAAAATGGTGGAGTTG
GAATAAAGGTAATGTACATGGGTGAAGAACATCTATTTAGTGTGGAGCAGATAACAGCCA
TGTTGTTGACTAAGCTGAAGGAACTGCTGAAAAAGCCTCAAGAAACAGTAACAGATT
GTGTTATTTAGTCCCCTCCTTCTTTACAGATGCTGAGAGGCGATCTGTGTTAGATGCTG
CACAGATTGTTGGCCTAAACTGTTTAAGACTTATGAATGACATGACAGCTGTTGCTTTGA
ATTACGGAATTTATAAGCAGGATCTCCCAAGCCTGGATGAGAAACCTCGGATAGTGGTTT
TTGTTGATATGGGACATTCAGCTTTTCAAGTGTCTGCTTGTGCTTTTAAACAAGGGAAAAT
TGAAGGTACTGGGAACAGCTTTTGATCCTTTCTTAGGAGGAAAAAATTCGATGAAAAGT
TAGTGGAACATTTTTGTGCAGAATTTAAACTAAGTACAAGTTGGATGCAAAATCCAAAA
TACGAGCACTCCTACGTCTGTATCAGGAATGTGAAAACTGAAAAAGCTAATGAGCTCTA
ACAGCACAGACCTTCCACTGAATATCGAATGCTTTATGAATGATAAAGATGTTTCCGGAA
AGATGAACAGGTCACAATTTGAAGAACTCTGTGCTGAACCTCTGCAAAAGATAGAAGTAC
CCCTTTATTCACTGTTGGAACAAACTCATCTCAAAGTAGAAGATGTGAGTGCAGTTGAGA
TTGTTGGAGGCGCTACACGAATTCAGCTGTGAAGGAAAGAATTGCCAAATTCTTTGGAA
AAGATATTAGCACAACTCAATGCAGATGAAGCAGTAGCCAGAGGATGTGCATTACAGT
GTGCAATACTTTCCCGGCATTTAAAGTTAGAGAATTTTCCGTACAGATGCAGTTCCTT
TTCCAATATCTCTGATCTGGAAACATGATTGAGAAGATACTGAAGGTGTTGATGAAGTCT
TTAGTCGAAACCATGCTGCTCCTTTCTCAAAGTTCTCACCTTTCTGAGAAGGGGGCCTT
TTGAGCTAGAAGCTTTCTATTCTGATCCCCAAGGAGTTCCATATCCAGAAGCAAAATAG
GCCGCTTTGTAGTTGAGAATGTTTCTGCACAGAAAGATGGAGAAAAATCTAGAGTAAAAG
TCAAAGTGCAGTCAACACCCATGGCATTTTACCATCTCTACGGCATCTATGGTGGAGA
AAGTCCCAACTGAGGAGAATGAAATGTCTTCTGAAGCTGACATGGAGTGTCTGAATCAGA
GACCACCAGAAAAACCCAGACACTGATAAAAAATGTCCAGCAAGACAACAGTGAAGCTGGAA
CACAGCCCCAGGTACAAACTGATGCTCAACAAACCTCACAGTCTCCCCCTTCACTGAAC
TTACCTCAGAAGAAAACAAAATCCCAGATGCTGACAAAGCAAATGAAAAAAAGTTGACC
AGCCTCCAGAAGCTAAAAAGCCCAAATAAAGGTGGTGAATGTTGAGCTGCCTATTGAAG
CCAACCTTGGTCTGGCAGTTAGGGAAAGACCTTCTTAACATGTATATTGAGACAGAGGGTA
AGATGATAATGCAAGATAAATTGGAAAAAGAAAGGAATGATGCTAAAAATGCAGTTGAGG
AATATGTGTATGAGTTGAGAGACAAGCTGTGTGGACCATATGAAAAATTTATATGTGAGC
AGGATCATCAAAATTTTTTGGAGACTCCTCACAGAACTGAAGACTGGCTGTATGAAGAAG
GAGAGGACCAAGCTAAACAAGCATATGTTGACAAGTTGGAAGAATTAATGAAAATTGGCA
CTCCAGTTAAAGTTTCGGTTTTAGGAAGCTGAAGAACGGCCAAAAATGTTTGAAGAAGTAG
GACAGAGGCTGCAGCATTATGCCAAGATAGCAGCTGACTTCAGAAATAAGGATGAGAAAT
ACAACCATATTGATGAGTCTGAAATGAAAAAGTGGAGAAGTCTGTTAATGAAGTGATGG
AATGGATGAATAATGTGATGAATGCTCAGGCTAAAAAGAGTCTTGATCAGGATCCAGTTG
TACGTGCTCAGGAAATTAACAACAAATCAAGGAATTGAACAACACATGTGAACCCGTTG
TAACACAACCGAAACCAAAATTTGAATCACCCAACTGGAAAGAACTCCAAATGGCCCAA
ATATTGATAAAAAAGGAAGAAGATTTAGAAGACAAAAACAATTTTGGTGTGTAACCTCAC
ATCAGAATGGTGAATGTTACCCTAATGAGAAAAATCTGTTAATATGGACTTGGAAGTAGA
TAACCTTAAATTGGCCTATTCTTCAATTAATAAAATATTTTTGCCATAGTATGTGACTC
TACATAACATACTGAACTATTTATATTTTCTTTTTTAAGGATATTTAGAAATTTTGTGT
ATTATATGAAAAAGAAAAAAGCTTAAGTCTGTAGTCTTTATGATCCTAAAAGGGAAAA
TTGCCTTGGTAACCTTTCAGATTCTGTGGAATTGTGAATTCATACTAAGCTTTCTGTGCA
GTCTCACCATTTGCATCACTGAGGATGAAACTGACTTTTGTCTTTTGGAGAAAAAACT

FIGURE 1 (CONT'D)

GTACTGCTTGTTCAAGAGGGCTGTGATTAAAATCTTTAAGCATTGTTCCTGC

Gene 79. >ENST00000313290 cDNA sequence

ATGAGCCGGGAGGGGCGGGCTCCGGCCAGTGTCTGGGGGCACACAAGGGCCTGCTTCCCCC
TCCCTTTCACTGGGCGACTGGAGGACAGGCGGAGGAGTGTGGCTGGGCGGCTGGAGGACA
GGCGGAGGAGTGTGGCAGCCGGACAGCTGGAGGACAGGCGGAGGAGTGTGGTGGCTGGCA
GGGTATGTGTTTCTGGTTCTGTTGAGTGATGCTTGGAAGATCGTTCTGAGAGGTGAGGGC
AGCTCCCGGGACCCAGAGCACTGGGCTCCTGCAGGGGACTAGGAGGCCGGCTTTTATCA
GCTCATGAGCTTTTAAAAATGGAGAGAAGGGCAGGTGTGGTGGCTCATCCCTATAATCCC
AGCACTTTGGGAGGTCTGGGGTGAGAGGATCATTGA

Gene 80. >ENST00000261573 cDNA sequence

ATGGACTCCAGAGCCCAGCTTTGGGGACTGGCCTTGAATAAAAGGAGGGCCACTCTACCT
CATCCTGGAGGGAGCACGAACCTAAAGGCAGACCCAGAAGAGCTTTTACAAAAGTAGAG
AAAATTGGGAAGGGCTCCTTTGGAGAGGTGTTCAAAGGCATTGACAATCGGACTCAGAAA
GTGGTTGCCATAAAGATCATTGATCTGGAAGAAGCTGAAGATGAGATAGAGGACATTCAA
CAAGAAATCACAGTGCTGAGTCAGTGTGACAGTCCATATGTAACCAAATATTATGGATCC
TATCTGAAGGATACAAAATTATGGATAATAATGGAATATCTTGGTGGAGGCTCCGCACTA
GATCTATTAGAACCCTGGCCCATTAGATGAAACCCAGATCGCTACTATATTAAGAGAAATA
CTGAAAGGACTCGATTATCTCCATTCTGGAGAAGAAAATCCACAGAGACATTAAAGCGGCC
AACGTCCTGCTGTCTGAGCATGGCGAGGTGAAGCTGGCGGACTTTGGCGTGGCTGGCCAG
CTGACAGACACCCAGATCAAAAGGAACACCTTCGTGGGCACCCATTCTGGATGGCACCC
GAGGTCAACACAGTCGGCCTATGACTCGAAGGCAGACATCTGGTCCCTGGGCATAACA
GCTATTGAACTTGCAAGAGGGGAACCACTCATTCCGAGCTGCACCCCATGAAAGTTTTTA
TTCCTCATTCAAAGAACAACCCACCGACGTTGGAAGGAACTACAGTAAACCCCTCAAG
GAGTTTGTGGAGGCTGTTTGAATAAGGAGCCGAGCTTTAGACCCACTGCTAAGGAGTTA
TTGAAGCACAAGTTTATACTACGCAATGCAAAGAAAACCTCCTACTTGACCGAGCTCATC
GACAGGTACAAGAGATGGAAGGCCGAGCAGAGCCATGACGACTCGAGCTCCGAGGATTCC
GACGCGGAAAACAGATGGCCAAGCCTCGGGGGGCGAGTGATTCTGGGGACTGGATCTTCACA
ATCCGAGAAAAAGATCCCAAGAATCTCGAGAATGGAGCTCTTCAGCCATCGGACTTGGAC
AGAAATAAGATGAAAGACATCCCGAAGAGGCCCTTCTCTCAGTGTATCTACAATTATT
TCTCCTCTGTTTGCAGAGTTGAAGGAGAAGAGCCAGGCGTGCGGAGGGAACCTTGGGGTCC
ATTGAAGAGCTGCGAGGGGCCATCTACCTAGCGGAGGAGGCGTGCCCTGGCATCTCCGAC
ACCATGGTGGCCAGCTCGTGCAGCGGCTCCAGAGATACTCTCTAAGTGGTGGAGGAACT
TCATCCCACTGAAATTCCTTTGGCATTGGGGTTTTGTTTTTCTTTTTCTTTCTTCAT
CCTCCTCCTTTTTTAAAGTCAACGAGAGCCTTCGCTGACTCCACCGAAGAGGTGCGCCA
CTGGGAGCCACCCAGCGCCAGGCGCCCGTCCAGGGACACACACAGTCTTCACTGTGCTG
CAGCCAGATGAAGTCTCTCAGATGGGTGGGGAGGGTCAGCTCCTTCAGCGATCATTTTA
TTTTATTTTATTACTTTTGTTTTAAATTTTAAACCATAGTGACATATTCCAGGAAAGTGT
CTTTAAAAACAAAACAAACCTGAAATGTATATTTGGGATTATGATAAGGCAACTAAAG
ACATGAAACCTCAGGTATCCTGCTTTAAGTTGATAACTCCCTCTGGGAGCTGGAGAATCG
CTCTGGTGGATGGGTGTACAGATTTGTATATAATGTCATTTTTACGGAACCCCTTTCGGC
GTGCATAAGGAATCACTGTGTACAACTGGCCAAGTGCTTCTGTAGATAACGTCAGTGGA
GTAAATATTTCGACAGGCCATAACTTGAGTCTATTGCCTTGCCCTTTATTACATGTACATTT
TGAATTCTGTGACCAGTGATTTGGGTTTTATTTTGTATTTGCAGGGTTTGTATTAATAA
TTAATGCCCTCTCTTACAGAACACTCCTATTTGTACCTCAACAAATGCAAATTTTCCCC
GTTTGCCCTACGCCCTTTTGGTACACCTAGAGGTTGATTTCTTTTTTTCATCGATGGTAC
TATTTCTTAGTGTTTTAAATTGGAACATATCTTGCCTCATGAAGCTTTAAATTATAATTT
TCAGTTTCTCCCATGAAGCGCTCTCGTCTGACATTTGTTTGAATCGTGCCACTGCTGG
TCTGCGCCAGATGTACCGTCTTTCCAATACGATTTTCTGTTGCACCTTGTAGTGGATTTC
TGCATATCATCTTTCCACCTAAAAATGTCTGAATGCTTACACAAATAAATTTTATAACA
CGCTT

Gene 81. >ENST00000255304 cDNA sequence

AGGGCGGACAGCCACGCCTCTGCGGAGGGCGACCGGAAGTGCTCACGTCTTCACCTTCCC
CGCCACGCCACCGTCTTTTCAAGGCCAGCGTGACAGGAAGGAGGACTCTTTTGC CGCG
GACTCAAGCCGGAAGCCGCTTCTAGTGGAGACGCGAGTGGGGGAGGAGCAGTCCGAGG

FIGURE 1 (CONT'D)

GGAACGTGGGTTGAACGTTGCAACTAGGGTGGAGATCAAGCTGGAACAGGAGTTCGATC
 GACCCGGTACCAAGAAGGGGAGTGCCCGCGGCAGGGTTCATTGAAAAATCCTTAGTGAT
 ATTGACATGTCTCAAGTGACATAAATTAGCCAATGACTCGGAATGATGGATTCTCGAAG
 ATTGGAAATGGTTTGGCAGTGATTGGACCAGGGACTGATATAGGGATATCTTCACTCCAC
 ATGGTGGGGTATTTGGGAAAAATTTTGATTAGCTAAAGTTCCATCAGATGAGTATTGC
 CCTGCTTGTAGAGAGAAGGGAAAGTTAAAGCCTTAAAGACTTACCGAATTAGTTTTCAA
 GAATCTATCTTTTTGTGTGAGGATCTGCAGTGATCTATCCTTTGGGCTCTAAATCACTT
 AATAACCTAATTTCTCCTGATTTGGAAGAATGTCACACTCCACATAAGCCTCAGAAAAGG
 AAGAGCTTAGAAAAGCAGCTATAAGGATTCACTTCTTTTAGCAAATTCAAAAAGACTAGA
 AATTATATTGCTATTGACGGTGGAAAAGTTTGAACAGCAAACATAATGGAGAAGTATAT
 GACGAAACCTCGTCAAACCTTACCTGATAGTAGTGGTCAACAGAATCCAATTAGGACAGCT
 GATTCCTTGGAGCGGAATGAGATTTTGAAGCTGATACTGTTGACATGGCTACTACAAA
 GATCCTGTACAGTTGATGTCTCTGGAACCTGGCAGACCTTCCCTCAAATGAAGGATGT
 ACATCTAAACTGGAAATGCCACTGGAGAGCAAATGTACATCATTTCCCAGGCTTTATGT
 GTCCAGTGGAAAATGCTTATGCTCTCTGTTGGTTAGACTGTATCCTGTGAGCTTTGGTG
 CACTCGGAAGAGTTAAAGAACACCGTGACTGGACTGTGCTCGAAGGAGGAATCTATATTC
 TGGCGGTTGCTTACAAAATATAATCAAGCAAATACACTTCTATATACCAGTCAATTGAGT
 GGTGTTAAAGATGGAGATTGTAAAAAATTACCTCAGAAATATTTGCAGAGATAGAGACC
 TGTCTGAATGAAGTTAGAGATGAAATTTTTATTAGCCTTCAGCCCCAGCTTAGATGCACA
 TTAGGTGATATGGAAAGCCCTGTGTTTGCAATTTCCCTGCTCTTAAAACTAGAAACCCAC
 ATTGAAAAGCTCTTCTATATTTCTTTTTCTTGGGACTTTGAATGTTGCGAGTGTGGACAC
 CAATATCAAAACAGGCATATGAAGAGTCTGGTCACCTTTACAAATGTATCCCTGAGTGG
 CACCCACTTAATGCTGCCCATTTTTGGTCCATGTAACAATTGCAACAGTAAATCACAAATA
 AGAAAAATGGTATTAGAAAAAGTATCTCCCATATTGATGTTGCACTTTGTAGAAGGCTTA
 CCACAGAATGACTTGCAGCACTATGCATTTCAATTTGAAGGCTGTCTTTATCAGATAACT
 TCTGTAATTGAGTATCGAGCAAATAATCATTTTATAACATGGATTTTAGATGCTGATGGA
 AGTTGGCTGGAATGTGATGACTTAAAGGCCCATGTTCTGAAAGGCACAAGAAATTTGAA
 GTTCTGCTTCAGAGATACATATTGTTATTTGGGAAAGAAAAATATCCCAAGTGACAGAT
 AAAGAAGCTGCCTGCCTTCCACTTAAAGACTAATGACCAACACGCTCTCAGTAATGAG
 AAACCAGTATCTTTAACATCGTGTCTGTGGGTGATGCTGCCTCAGCTGAAACAGCCTCA
 GTAACCTCACCTAAAGATATATCAGTTGCCCTCGTACTCTTTCAAGGACACAGCTGTA
 ACTCATGGAGATCATTTACTTTAGGTCCAAAAGGTTTGGTTGACAATATTTTACCTCTG
 AACTTTGAAGAACTATCCAGAAAAACAGCCTCAGTTTACAGTTAAATTTCTGAAGCTTTC
 CTGTTAGAAAAATAAACCTGTAGCAGAAAAATACAGGAATTCTCAAACCAATACCTTGCTA
 TCACAAGAATCACTAATGGCTTCTTCAGTATCAGCTCCATGTAATGAAAAGCTTATTCAA
 GACCAATTTGTGGACATAAGTTTTCCATCCCAAGTTGTAAATACAAACATGCAGTCAGTA
 CAGCTGAATACAGAAGATACTGTAAATACTAAATCTGTGAATAATACTGATGCTACTGGT
 CTTATACAGGGAGTGAAGTCAGTAGAAATTGAGAAGGACGCTCAGTTAAAACAATTCCTT
 ACACCAAAAACTGAACAATTAATAACAGAACGTGTACATCTCAGGTATCTAATTTGAAG
 AAAAAAGAACTACAGCAGATTCTCAAACCAACATCTAAGTCATTACAGAATCAGTCT
 CTGAAAGAAAAATCAGAAGAAGCCATTTGTGGGAAGTTGGGTAAAGGCTTAATAAGCAGG
 GGTGCTTCTTTTTATGCCACTCTGTGTTTCAGCTCATAATAGAAACACTATAACTGATTTA
 CAACCTTCAGTTAAAGGGGTAAATAATTTTGGTGGCTTTAAAACTAAAGGTATAAACAG
 AAGGCCAGCCACGTATCCAAGAAAGCTCGTAAGAGTGCAAGTAAGCCTCCTCCCATCAGT
 AAGCCACCAGCAGGCCCTCCATCGTCTAATGGCACAGCTGCCCAACCATGCTCATGCT
 GCTTCAGAAGTTTGGAAAAGTCTGGAAGCACCTCATGTGGAGCTCAACTCAACCAAGT
 TCTTATGGGAATGGTATTTCTTCAGCAAACCATGAAGACTTGGTGGAAAGGTGAGATTCAT
 AAACCTTCGTCTAAAACTTCGTAAAAAGCTAAAGGCAGAAAAGAAGAAATTAGCTGCTCTT
 ATGTCTTCCCCGCAAAGCAGAAAGTTCGAAGTGAAAATCTAGAACAGGTGCCCCAGGAT
 GGGTCTCCAAATGATTGTGAATCAATAGAGGACTTGTTAAATGAGCTACCATATCCAATT
 GATATTGCCAGTGAGTCTGCATGCACCACTGTTCTGGTGTTCCTGTACAGTAGTCAA
 ACTCATGAAGAAATTTTAGCGGAATTATTGTCTCCTACACCTGTTTCAACAGAGCTGTCA
 GAAAATGGGGAAGGTGACTTTAGGTATTTGGGAATGGGAGATAGTCATATCCACCACCA
 GTACCAAGTGAATTCATGATGTTTCCAGAACACACATCTGAGACAGGACCATAATTAT

FIGURE 1 (CONT'D)

TGTAGCCCCACCAAGAAAAATCCATGTGAAGTTCAGCCAGACTCTCTGACAAATAATGCC
TGC GTTAGAACATTAACTTGGAGAGTCCGATGAAGACTGATATTTTCGATGAGTTTTTT
TCCTCCTCAGCATTAAATGCTTTAGCAAATGACACATTAGACCTACCTCATTTTCGATGAA
TATCTGTTTGAGAATTATTGA

Gene 82. >ENST00000267294 cDNA sequence

GCGGCCGCAAGCACGGGGGCGAATCCCCGCTGGGTTCGAGGGCCTGAACGGGAGCCAATCG
AGCAGCCGAGGCTACTGCCAATCACGCGGCTCCCTCCAATCCCACCCGTGCCATTTCCAA
AATCTCGGTCCCACTGTGCAGCTCAAATGTGGTGTTCACTCTGCCAATCGCTGGAGGATA
GAGTGGGAACAGGAATAAGCAGAGTTAAGAGGCCAGGACAAAAGAAGTTAAAGAGCGCCC
AATACATACATGTTTTTTGAAGGCGGGCAGAGGGAATAAAGTCCCCCAGTGAGGGTCTAT
GGGCCTGATTGTGTAGTTCTGATGGAGCCCCCTTTGAGCAAGAGGAACCCGCCAGCGCTG
AGATTAGCGGATTTGGCAACGGCTCAGGTCCAGCCGCTTCAGAATATGACAGGCTTCCCG
GCGCTGGCCGGCCCCGCCCACTCCCAACTCCGGGCGCGCTCGCGCACCTCCGCCTG
CGGGACCTGGGCGCTGACCCCGGCGTGGCCACCACTCCGCTCGGACCCGAGCACATGGCC
CAGGCGAGCACGCTGGGCCTCAGCCCTCCCTCCCAGGCGTTCCCGGCACACCCGGAGGCT
CCGGCAGCCGCCCGCCGCTGCTGCAGCCTTGGTTCGCGCACCCCGGCGGGGAGCTACCCC
TGCGGCGGGGGCAGCAGTGGCGCGCAGCCCTCCGCGCCCCCGCCCCAGCCCCCTCCTCTT
CCTCCCACCCCTTCACCCCTCCCCCTCCCCCGCCTCCTCCTCCTCCTGCCCTCTCGGGC
TACACCACCACCAACAGTGGCGGCGGCGGCAGCAGCGGCAAAGGCCACAGCAGGGACTTC
GTCTCCGAGGGACCTTTCCGCCACGGCCCCCGCGGCGGCCATGCACGGGGCCCCGCTC
GGAGGGGAGCAGCGGTCCGGCACGGGCTCCCCCAGCACCCGGCCCCGCTCCCACTCG
GCCGGCATGTTTCATCTCCGCCAGCGGCACCTACGCGGGCCCGACGGCAGCGGCGGCCCCG
GCGCTCTTCCCCGCGCTGCACGACACGCCGGGGGGCCCCAGGCGGCCACCCGACCCGCTC
AACGGCCAAGATGCGCCTGGGGCTGGCGGGCGGCAGCGGCAGCCGCGGCGGCTGAGCTGTAC
GGCCGCGCCGAACCGCCCTTCGCGCCGCGCTCTGGGGACGCGCACTACGGGGCGGTTGCG
GCCGCGAGCGGCGGCCGCCCTGCA CGGCTACGGAGCCGTGAACCTAAACCTGAACCTGGCG
GCTGCGGCGGCGCGCAGCAGCGGCGGGCCCCGGGCCCCA CCTGCAGCACACGCGCCGCC
CCGGCGCCGCCCGCCGCCCGCGCGCCCGCGCAGCACCCGACCCAGCACACCCCCACCTC
CCAGGGGCGGCTGGGGCCTTCTGCGCTACATGCGGCAGCCAATCAAGCAGGAGCTCATC
TGCAAGTGGATCGACCCCCGACGAGCTGGCCGGGCTGCCGCCGCCGCCGCCGCCGCCGCCG
CCGCCGCCGCCCAACGCCCCCGGCCGGCGGCGCCAAGCCCTGCTCCAAAACCTTTCGGCACC
ATGCACGAGCTGGTGAATCACGTACGGTGGAGCACGTGGGAGGCCCGGAGCAGAGCAGC
CACGTCTGCTTCTGGGAGGACTGTCCGCGCGAGGGCAAGCCCTTCAAGGCCAAATACAAG
CTCATCAACCACATCCGCGTGCACACCGGCGGAGAAGCCCTTTCCCTGCCCTTTCCCCGGC
TGCGGCAAGGTCTTCGCGCGCTCCGAGAACCTCAAGATCCACAAGCGTACTCATACAGGG
GAAAAGCCTTTCAAATGTGAATTTGATGGCTGTGACAGGAAGTTTGCCAATAGCAGTGAT
CGGAAGAAACATTTCCATGTCCACACCAGTGACAAGCCCTACTACTGCAAGATTCGAGGC
TGTGACAAATCCTACACTCACCCAAGCTCCCTGAGGAAGCACATGAAGATTCAGTCAAG
TCCCCGCCACCTTCTCCAGGACCCCTTGGTTACTCATCAGTGGGGA CTCCAGTGGGCGCC
CCCTTGTCCCCTGTGCTGGACCCAGCCAGGAGTCACTCCAGCACTCTGTCCCCTCAGGTG
ACCAACCTCAATGAGTGGTACGTTTGCCAGGCCAGTGGGGCCCCCAGCCACCTCCACACC
CCTTCCAGCAACGGAACCACTCTGAGACTGAAGATGAGGAAATTTACGGGAACCTGAA
GTTGTGCGGACGATACATTAGAATTTATTATTAATAATAAAGTGAAATAATAAGTGGG
AGTCCTTGGACCACATCCTAACCTGAGACAATGCCGAGCCTGAGACAAAACCCGTGACTCA
GACTTGCCACCGGTCTAATTAGCCCTATTTATTTCAGTATGAAACCTATGGTGTGTTGTA
CATTTAATTAATTTAATTAAG

Gene 83. >ENST00000255320 cDNA sequence

CAGTACATTGAGCTCCATAGAGACAGCACCGGGGCAAGTGAGAGCCGGACGGGCACTGGG
CGACTCTGTGCCTCGCTGAGGAAAAATAACTAAACATGGGCAAAGGAGATCCTAAGAAGC
CGAGAGGCAAAATGTCATCATATGCATTTTTTTGTGCAAACTTGTGCGGAGGAGCATAAGA
AGAAGCACCCAGATGCTTCAGTCAACTTCTCAGAGTTTTCTAAGAAGTGCTCAGAGAGGT
GGAAGACCATGTCTGTCTAAAGAGAAAGGAAAATTTGAAGATATGGCAAAAGCGGACAAGG
CCCGTTATGAAAGAGAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAGAAGT
TCAAGGATCCCAATGCACCAAGAGGCCTCCTTCGGCCTTCTTCTCTTCTGCTCTGAGT

FIGURE 1 (CONT'D)

ATCGCCCAAAATCAAAGGAGAACATCCTGGCCTGTCCATTGGTGATGTTGCGAAGAAAC
TGGGAGAGATGTGGAATAACACTGCTGCAGATGACAAGCAGCCTTATGAAAAGAAGGCTG
CGAAGCTGAAGGAAAAATATGAAAAGGATATTGCTGCATATCGAGCTAAAGGAAAGCCTG
ATGCAGCAAAAAGGGAGTTGTCAAGGCTGAAAAAGCAAGAAAAAGAAGGAAGAGGAGG
AAGATGAGGAAGATGAAGAGGATGAGGAGGAGGAGGAAGATGAAGAAGATGAAGATGAAG
AAGAAGATGATGATGATGAATAAGTTGGTTCTAGCGCAGTTTTTTTTTTCTTGTCTATAA
AGCATTTAACCCCCCTGTACACAACCTCACTCCTTTTAAAGAAAAAAATTGAAATGTAAGG
CTGTGTAAGATTTGTTTTTAACTGTACAGTGTCTTTTTTTGTATAGTTAACACACTACC
GAATGTGTCTTTAGATAGCCCTGTCTGGTGGTATTTTCAATAGCCACTAACCTTGCCTG
GTACAGTATGGGGGTTGTAAATTGGCATGGAAATTTAAAGCAGGTTCTTGTGGTGCACA
GCACAAATTAGTTATATATGGGGATGGTAGTTTTTTCATCTTCAGTTGTCTCTGATGCAG
CTTATACGAAATAATTGTTGTTCTGTTAACTGAATACCACTCTGTAATTGCAAAAAAAA
AAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTT
TATTAGTATTGTTGTCCTTTTCATAGGTCTGAAATTTTTCTTCTTGAGGGGAAGCTAGTC
TTTTGCTTTTGGCCATTTTGAATCACATGAATTATTACAGTGTATTCTTTTCATATAGT
TAGCTAATAAAAAGCTTTTGTCTACACACCCTGCATATCATAATGGGGGTAAAGTTAAGT
TGAGATAGTTTTTCATCCATAACTGAACATCCAAAATCTTGATCAGTTAAGAAATTTTACA
TAGCCCACTTACATTTACAACTGAAGAGTAATCAATCTACTCAAAGCATGGGATTATTA
GAATCAAACATTTTGAAGTCTGTCTTGAAGGACTAATAGAAAAGTATGTTCTAACCTT
TACATGAGGACTCTATTCTTTAACTCCCATTACCATGTAATGGCAGTTATATTTTGCAGT
TCCCACATTAAAGAAGACCTGAGAATGTATCCCCAAAAGCGTGAGCTTAAAATACAAGAC
TGCCATATTAAATTTTTTGTGACATTAGTCTCAGTGAAGACTATGAAAATGCTGGCTAT
AGATGTCTTTTCCATTTATCTAAATATGGACTGCTCAGGAAACGAGACTTTCCATTACA
AGTATTTTTTAATTAATTGGGCCAGCTTTTCAAACAAAGATGCCACATTCAAATAGGGTA
TATTTTCTATATTACGGTTTGGCCCTTTATAAATCCAAGTAGATAGGAAGAAAGAAGAC
AACTTTGCATCTCAGTATGAATTATTCAATTTATTTGAATGATTTTTCTTTACAAAACA
AACTCATTCAATTAGTCATGTTTATCTGCTTAGGAGTTTAGGGAACAATTTGGCAATTTTG
TGGTTTTTCGAGATTATCGTTTTCTTAAAGTGCCAGTATTTTAAAATAGCGTTCTTGTAAT
TTTACACGCTTTTGTGATGGAGTGCTGTTTTGTTATATAATTTAGACTTGGATTCTTTCC
ATTTGCATTTGTTTATGTAATTTTCAAGGAGGAATACTGAACATCTGAGTCCTGGATGATAC
TAATAAACTAATAATTGCAG

Gene 84. >ENST00000323380 cDNA sequence

GTGGCAGCCCTCGGAATCACGGGGAGGTCACTGCCACAACCTGGCTCTTTGTAGGGGGGT
CCAACCTCCAGGCAGGGGATCACTGCCTGAGGTACCTCTTTAGAGTCCTGAGTGTGGCTCC
TGGACCATCCCCCTTCCCACTGCTTGTCCACGCGCTTGCACCGCTATGAGCGATGACGGCA
AAGGAAAAGAAAAGCGTCTCCTACGAGGTGGTCTGTTTCCAGTGGCAGGGGGAGCTA
CGGTACACAAGCACAGGTTTCAATTTATGAAGCAGCCAATAAGAATTTCCAGCCTGAGAG
GACCTTGGAAACCAGAAGGAATTGGAGGAGATTTAAACAAGCTGACCCAAGGAAAGCACAA
GATCTTTCTATGCATTGAAGATCACCAAATCAAAGATAAAAAGTGCTCGACCATTATGGCC
TATGGCAAACCTCGGGCTGGCTGAAGCATCCTTCTCTTCCATTTAGAACCCTGGTGAAGCC
CCTTAGACCACCACTGGGCTGTCTCCTCCTCCTCCTCAGAGACAGAGTTCTGGGCTGGGCC
ATGGAGGTGTCTGTCAACACGGCAGTAGTCCTCGTTCTATGGAACCAAGCTGTTCCCTG
TGACACGACTCCATTCCCGCAGCTGCCTGCTATTAGCTGGGCTGACGGACAGCAGAGCA
CAGGGTTGGAAGACCAACCTCTCAGACAGGTTTACCAAGAAGCTCACTGAGAGGCGACAC
AAACGGCCAAGAACATGAAAAGACGGTCAGTGCCCTTGCAAGATGGAAGCAGGCAATCATT
TTTACCTGCAAGGCTGATAAAGATGAAATGTTCTGATAATACAGGAAGAGTATAAGGAA
ACTGTCACTCGATGGACTCCAGGTGAAATATAACTAATCCAGCTGCCTTGGAGGGAAAAG
ATATCTTTCAAATTTGAAATGACAGGAATGGCAGCATTATGGGTGGGAGATAAAGAATCT
GGGTTTTCTTTCAAGGGTGATGAAAATGTTCTAAAAAGGATTGTGGTGACAGTTTTCCACA
ACTCGGAATATACTGAAAACCAACCATTTGTATACTTAAATGGGTGGGTTGTATGGTAT

Gene 85. >ENST00000266949 cDNA sequence

CGATCCTGCCGGAGCCCCGCCGCCGCGCTTGGATTCTGAAACCTTCTTGTATCCCTC
CTGAGACATCTTTGCTGCAAGATCGAGGCTGTCTCTGGTGAGAAGGTGGTGAGGCTTCC
CGTCATATTCCAGCTCTGAACAGCAACATGGGGTGCAAAGTCCTGCTCAACATTGGGCAG

FIGURE 1 (CONT'D)

CAGATGCTGCGGCGGAAGGTGGTGGACTGTAGCCGGGAGGAGACGCGGCTGTCTCGCTGC
CTGAACACTTTTTGATCTGGTGGCCCTCGGGGTGGGCAGCACACTGGGTGCTGGTGTCTAC
GTCCTGGCTGGAGCTGTGGCCCGTGAGAATGCAGGCCCTGCCATTGTCTCTCTTCTG
ATCGCTGCGCTGGCCTCAGTGTGGCTGGCCTGTGCTATGGCGAGTTTGGTGCTCGGGTC
CCCAAGACGGGCTCAGCTTACCTCTACAGCTATGTACCGTTGGAGAGCTCTGGGCCTTC
ATCACCGGCTGGAACCTTAATCCTCTCCTACATCATCGGTACTTCAAGCGTAGCGAGGGCC
TGGAGCGCCACCTTCGACGAGCTGATAGGCAGACCCATCGGGGAGTTCTCACGGACACAC
ATGACTCTGAACGCCCCCGGCGTGCTGGCTGAAAACCCCGACATATTGCGAGTGATCATA
ATTCTCATCTTGACAGGACTTTTAACTCTTGGTGTGAAAGAGTCGGCCATGGTCAACAAA
ATATTCACTTGTATTAAACGTCCTGGTCTGGGCTTCATAATGGTGTGAGGATTTGTGAAA
GGATCGGTTAAAAACTGGCAGCTCACGGAGGAGGATTTTGGGAACACATCAGGCCGTCTC
TGTTTGAACAATGACACAAAAGAAGGGAAGCCCGGTGTTGGTGGATTATGCCCTTCGGG
TTCTCTGGTGTCTGTGCGGGGCGAGCACTTGCTTCTATGCCTTCGTGGGCTTTGACTGC
ATCGCCACCACAGGTGAAGAGGTGAAGAACCCACAGAAGGCCATCCCCGTGGGGATCGTG
GCGTCCCTCTTGATCTGCTTCATCGCCTACTTTGGGGTGTGCGCTGCCCTCACGCTCATG
ATGCCCTACTTCTGCCTGGACAATAACAGCCCCCTGCCCCGACGCTTTAAGCACGTGGGC
TGGGAAGGTGCCAAGTACGAGTGGCCGTGGGCTCCCTCTGCGCTCTTTCGCCAGTCTT
CTAGGTTCCATGTTTCCCATGCCTCGGGTTATCTATGCCATGGCTGAGGATGGACTGCTA
TTTAAATTCTTAGCCAACGTCAATGATAGGACCAAAACACCAATAATCGCCACATTAGCC
TCGGGTGCCGTTGCTGTGTGATGGCCTTCCTCTTTGACCTGAAGGACTTGGTGGACCTC
ATGTCCATTGGCACTCTCCTGGCTTACTCGTTGGTGGCTGCCTGTGTGTTGGTCTTACGG
TACCAGCCAGAGCAGCCTAACCTGGTATACCAGATGGCCAGTACTTCCGACGAGTTAGAT
CCAGCAGACCAAAATGAATTGGCAAGCACCAATGATTCCAGCTGGGCTTTTTTACCAGAG
GCAGAGATGTTCTCTTTGAAAACCATACTCTCACCCAAAACATGGAGCCTTCCAAAATC
TCTGGGCTAATTGTGAACATTTCAACCAGCCTCATAGCTGTTCTCATCATCACCTTCTGC
ATTGTGACCGTGCTTGAAGGGAGGCTCTCACCAAAGGGGCGCTGTGGGCAGTCTTTCTG
CTCGCAGGGTCTGCCCTCCTCTGTGCGGTGGTCACGGGCGTCATCTGGAGGCAGCCCGAG
AGCAAGACCAAGCTCTCATTTAAGGTTCCCTTCCCTGCCAGTGCTCCCCATCCTGAGCATC
TTCGTGAACGTCTATCTCATGATGCAGCTGGACCAGGGCACCTGGGTCCGGTTTGCTGTG
TGGATGCTGATAGGCTTCATCATCTACTTTGGCTATGGCCTGTGGCACAGCGAGGAGGCG
TCCCTGGATGCCGACCAAGCAAGGACTCCTGACGGCAACTTGGACCAGTGCAAGTGACGC
ACAGCCCCGCCCCCGGAGGTGGCAGCAGCCCCGAGGGACGCCCCCAGAGGACCGGGAGG
CACCCACCCCTCCCCACAGTGCAACAGAAACCACCTGCGTCCACACCCCTCACTGCA

Gene 86. >ENST00000245295 cDNA sequence

ATGCTCCTGGACGCGGGTCCGCAAGTTCCCGGCCATCGGGGTGGGCAGCTTCGCGCGCCAC
CATCACCACTCCGCCGCGGGCGGGCGGGCGGCTGCCGCCGAGATGCAGGACCGTGAACTG
AGCCTGGCGGGCGGCGCAGAACGGCTTCGTTGACTCCGCCGCGCGCACATGGGAGCCTTC
AAGCTCAACCCGGGCGCGCACGAGCTGTCCCGGGCCAGAGCTCGGCGTTACGTCGCAG
GGCCCCGGCGCCTACCCCGGCTCCGCTGCGGCTGCCGCTGCGGCCGAGCGCTCGGGCCC
CACGCCGCGCACGTTGGCTCCTACTCTGGGCCGCCCTTCAACTCCACCCGGGACTTCCTG
TTCGCGAGCCGCGGCTTCGGGGACTCGGCGCCGGGCGGGCGGCAGCACGGGCTGTTCCGG
CCGGGCGCGGGCGGCTGCACCACGCGCACTCGGACGCGCAGGGCCACCTCCTCTTCCCG
GGCCTGCCAGAGCAGCACGGGCCGACGGCTCGCAGAATGTGCTCAACGGGCAGATGCGC
CTCGGGCTGCCCGGCGAGGTGTTCCGGCGCTCGGAGCAATACCGCCAGGTGGCCAGCCCG
CGGACCGACCCCTACTCGGCGGCGCAACTCCACAACCAAGTACGGCCCCATGAATATGAAC
ATGGGTATGAACATGGCAGCAGCCGCGGCCCAACCACCAACCAACCAACCAACCAACCC
GGTGCCTTTTTCCGCTATATGCGGCAGCAGTGCATCAAGCAGGAGCTAATCTGCAAGTGG
ATCGACCCCGAGCAACTGAGCAATCCCAAGAAGAGCTGCAACAAAACCTTTCAGCACCATG
CACGAGCTGGTGACACACGTCTCGGTGGAGCAGTCGGCGGCCCGGAGCAGAGCAACAC
GTCTGCTTCTGGGAGGAGTGTCCGCGCGAGGGCAAGCCCTTCAAGGCCAAATACAACTG
GTCAACCACATCCGCGTGACACAGGCGAGAAACCTTCCCCTGCCCCCTTCCCGGGCTGT
GGCAAAGTCTTCGCGCGCTCCGAGAACCTCAAGATCCACAAAAGGACCCACACAGGGGAG
AAGCCGTTCCAGTGTGAGTTTGAAGGCTGCGACCGGCGCTTCGCCAACAGCAGCGACAGG
AAGAAGCACATGCACGTCCACACCTCCGATAAGCCCTATCTCTGCAAGATGTGCGACAAG

FIGURE 1 (CONT'D)

TCCTACACGCACCCAGCTCGCTGCGGAAGCACATGAAGGTCCATGAGTCCTCCCCGCAG
GGCTCTGAATCCTCCCCGGCCGCCAGCTCCGGCTATGAGTCGTCCACGCCCCGGGGCTG
GTGTCCCCCAGCGCCGAGCCCCAGAGCAGCTCCAACCTGTCCCAGCGGCGGCGGCAGCG
GCGGCGGCGGCTGCGGCGGCGGCGGCGGCGGTGTCCGCGGTGCACCGGGGCGGAGGCTCG
GGCAGTGGCGGCGCGGAGGCGGCTCAGGCGGCGGCAGCGGCAGTGGCGGGGCGGCGGC
GGGGCGGCGGCGGGGGCGGCGGCAGCTCTGGCGGGGCGAGCGGGAAGCCGGGGGTAC
AGCGGCCTCTCCTCAACTTCAATGAATGGTACGTGTGACGGGTGGGGCCTCTCTCCCT
CTCCCTGTCCCCACCCAGCGCAGCAGCCCTCCCCGAGCTAGCAGCGAGGGCACCTTGT
GATCATGTTGTTAAATTATGAATCTGATTTTTATGATGATGAAAATTTTACCAGCAGAA
GGATTTTTTAAAGTTTTTTTTTTTTTTTAAATAATAATCTAGGCATGAAGAGCAAAAATA
TCCCTTCCGAGTCTTTGAAGCTGAAAATATAAAACAAATAAAAAATAAAAAATAAAAA
CCCAAAAAATGTTGAACCAACCTCCCTGCTAATCTCCATGCCACGTTCTTTCCCAAC
CTGTTCCAGTCTTCTGACAACTGTGTACATAGCGGACTCCTCCTTTCTCCTCCGAGGT
GGTTTTAAAGGCTTTTTGGTGTATAGAAGTTTGTCCATTTGTAAACTCCGGATTGCGTT
CCTCCCCGCTTCCGCCCCTTCCCTTCCCTAAAGTGATGGGCTTTCTCTTTTCTCTTTTT
AGTTTACCCGGTTTTCTTTTTAAGTAATGTGGAAGAAAATGGTTTTATTTTGTATTGTGGTA
TTGAATATTGTGTTCTTTTTATGAGGCAACCTGATTGTAACTTCATGTAACATATAGAC
TGGAAAAAATGAGCCGTGCCAAAGTCTCCCTTCTGTTTCTTCAGCACATTGACCCATAGC
ACACACATACACACCACCACCAACAACGCTTGTGAATGTATTTTTCTGTTAGCTGGGTTT
ACATGTGATGTTTTAGTGCTTTTCAAGTTCAATTTGTTAGTTCCTGTATGAAAGATTGT
GGGGGAAAAATAAACGTCGTGCGGTTAGCTTTTTCCGTAATAACACCCCTTCTTCTGTAA
ATACCCGTTACCATATTTATCCATTTGTAATTAAATTATGGTATTAACTTGCTACAGAGG
AAACAATATTTATAAAGAATGTTTCTTAACATATAAATATGTACAATTGTGGGCATAAACT
GTTTCAGATTTTTTATTTGAAGGTTTTAAGTGGTTTTGATCATTTCTTGTGATGTTTTGAG
AGTAATGCATACAGAAATATAATAAAATGTGTTGAAACTGC

Gene 87. >ENST00000255317 cDNA sequence

ACTTCCCCTTCTGTACAGGGCAGGTTGTGCAGCTGGAGGCAGAGCAGTCCTCTCTGGGG
AGCCTGAAGCAAAACATGGATCAAGAACTGTAGGCAATGTTGTCTGTTGGCCATCGTCA
CCCTCATCAGCGTGGTCCAGAATGGATTCTTTGCCCATAAAGTGGAGCACGAAAGCAGGA
CCCAGAATGGGAGGAGCTTCCAGAGGACCGGAACACTTGCCTTTGAGCGGGTCTACACTG
CCAACCAGAACTGTGTAGATGCGTACCCCACTTCTCCTCGCTGTGCTCTGGTCTGCGGGC
TACTTTGCAGCCAAGTTCTGCTGCGTTTGCTGGACTGATGTACTTGTGTTGTGAGGCAAA
AGTACTTTGTGCGTTACCTAGGAGAGAGAACGCAGAGCACCCCTGGCTACATATTTGGGA
AACGCATCATACTCTTCTGTTCTCATGTCCGTTGCTGGCATATTCAACTATTACCTCA
TCTTCTTTTTCGGAAGTGACTTTGAAAACTACATAAAGACGATCTCCACCACCATCTCCC
CTCTACTTCTCATTCCCTAACTCTCTGCTGAATATGGGGTTGGTGTCTCATCTAATCAA
TACCTACAAGTCATCATAATTGAGCTCTTGAGAGCATTCTGCTCTTCTTTAGATGGCTGT
AAATCTATTGGCCATCTGGGCTTCAAGCTTGAGTTAACCTTGCTTTTCCGGGAACAAAA
TGATGTGATGTCAGCTCCGCCCCTTGAACATGACCGTGGCCCCAAATTTGCTATTCCCAT
GCATTTTGTGTTGTTCTTCACTTATCCTGTTCTCTGAAGATGTTTTGTGACCAGGTTTGT
GTTTTCTTAAATAAAATGCAGAGACATGTTTT

Gene 88. >ENST00000287380 cDNA sequence

AAATTTCCCGGGCCGGGAGCGCTGGGCCTGCCGGAAGGCGCTGGGACGGTTACCCAGCG
GGCCGCCGGCGGTGCTGGGCAAGCTTCGCCATGCAGAGCACTGACCTAGGCAACAAGGAG
AGCGGCAAGATATGGCACCGCAAGCCGTCCCCGGCCACGCGGGAAGGAATTATAGTGAAC
ATTATTACAACTTCCGATTACCATCCAAAAGTTTTCGATTTTTGAAATGTGGCTTTT
GATGGCACAGGCGACTGCTTAATTGCTGGGGACCACCAAGGAAATATTTATGTTTTGAC
TTACATGGAAACAGGTTCAATCTTGTTGAGCGAACAGCACAAGCTTGACAGCTCTGGCC
TTAATCTTCTGATGAAATCTGAATTCCTTGTTGGCATTAGCTGATTATTCTATTAAATGT
TTTGATACAGTCACCAAGGAGCTAGTTAGCTGGATGAGAGGACATGAATCATCAGTATTT
TCGATCTCTGTGCATGCATCAGGGAATATGCCATCACAACTTCTTCTGATACAGCACA
TTATGGGACTTGATACCTTTTCAAGAAAAAGAAAGCTGAATATTCCGCAGTCTGTGGGT
ATACAGAAGGTTTTCTTTCTACCATTAAAGTAATACCATCCTCAGCTGTTTTAAAGATAAT
TCCATTTTTGCTGGGAATGTGACACACTTTTTTGCAAATATCAATTGCCAGCTCCACCT

FIGURE 1 (CONT'D)

GAAAGCTCTAGTATATTATACAAAGTGTTTGTCTGTAACCAGAGATGGCCGAATCCTGGCT
GCTGGAGGCAAGTCAAATCATCTTCATTTGTGGTGCTTGGAAGCTAGGCAGCTCTTTAGA
ATTATCCAGATGCCCACTAAAGTTCGAGCCATTGCGCATCTGGAATTTCTTCCTGATAGT
TTTGATGCTGGTTCTAATCAGGTTCTTGAGTACTAAGTCAAGATGGTATTATGAGATTT
ATCAATATGCAGACTTGTAACCTTCTCTTTGAGATTGGGAGCCTCGATGAAGGAATTAGC
TCATCAGCAATTAGCCACATGGACGGTACATTGCATCTATTATGGAAAATGGAAGTCTA
AACATATATTAGTTTCAAGCTTTTAAACACAAGAAATAAATAAGCCACCTCCGCCTTTAGTG
AAAGTTATTGAAGATTTGCCCAAGAATAAACTGAGTTCCAGTGATCTTAAGATGAAAGTA
ACATCAGGGAGAGTACAGCAGCCAGCAAAATCTAGGGAAAGCAAAATGCAAACTAGAATA
TTAAAAAAGACCTGACTGGTGATTTTGAAAGTAAAAAGAATGAATTACCAGATGGATTA
AACAAAAAGCGTTTACAAATCTTATTAAAGGCTATGGTGAATATCCAACAAAATACAGA
ATGTTTCATTTGGCGCTCTCTGCTACAACCTGCCTGAAAATCATACTGCGTTTAGTACCCTC
ATAGATAAGGGGACTCATGTGGCATTCTCAACCTTCAGAAGAAATACCCCATCAAAAGT
AGGAAGCTACTCAGAGTATTACAGAGAACCTTATCTGCATTAGCTCACTGGTCTGTCTATT
TTTAGTGACACACCATATCTTCCACTCTTGGCATTTCATTGTAAAATTATTCCAGAAC
AACCAACTCATCTGTTTTGAAGTTATTGCTACTCTCATAATCAATTGGTGTCAACACTGG
TTTGAAATATTTTCTAATCTCTCTATCAATATTCTTAGCATGATAGAAAATGTTTTGGCA
TTTCATGACAAGGAAGTCTGCAACACTTCATAGATCATGATATAACCTCCAGCTATAT
GCATGGCCTCTTCTGAAACTGTGTTCTCAGAAGTGCTGACAAGAGAGGAGTGGCTGAAA
TTGTTTCGATAATATCTTTTCAACCATCCTTCTTCTCTGATGACTGTTGTAGCCTAC
AACATATGTTCTAGAACGCTCTGCTCAGCTGTAATCTTAAAGATGACTTTGAGTTTTTT
TTTCACCATCGGAATAACCTGGATATAAATGTTGTGATTAGACAAGTTTATCATCTCATG
GAGACCACGCCTACTGACATTCATCCAGACAGCATGCTTAATGTTTTTGTGCACTGACA
AAAGGGCAGTATCCAGTATTTAATCAATATCCAAAGTTTATTGTGGACTATCAAACACAG
GAACGAGAAAGAATAAGGAATGATGAATTGGATTACTTAAGAGAGAGGCAGACAGTTGAA
GATATGCAAGCTAAAGTCGACCAGCAAAGAGTTGAAGATGAAGCTTGGTACCAGAAACAG
GAGCTGCTTCGTAAAGCTGAAGAAACAAGAAGAGAAATGCTCTTACAAGAGGAGGAGAAA
ATGATACAACAAAGACAGAGGCTAGCTGCTGTGAAAAGAGAGCTGAAAGTAAAGGAAATG
CACTTACAAGATGCTGCAAGAAGGCGTTTTCTGAAGCTTCAGCAAGATCAACAGGAAATG
GAACTAAGAAGACTGGATGATGAAATTGGGAGAAAGGTATATATGAGAGATCGAGAAATT
GCTGCCACAGCCAGAGACCTAGAAATGAGACAGCTGGAATCGAATCAAAAAGAGACTT
TATGAGAAGAATCTTACTGAAAATCAAGAAGCTCTTGCAAAAGAAATGCGAGCAGATGCA
GATGCCTATAGACGAAAAGTGGATCTTGAAGAACACATGTTTCATAAGCTGATAGAAGCA
GGTGAAACCCAGAGCCAGAAAACCTCAGAAGGTGATTAAAGAAAATTTGGCAAAGGCTGAA
CAAGCATGCCTAAATACCGACTGGCAGATTCAAGTCTTTACATAAAACAAAATGTGATGAT
CTACAACGAAACAAATGTTACCAGGAAGTAGCCAAACTCCTTAGGGAAAAACAGAAGGAAA
GAAATAGAGATAATAAATGCAATGGTGGAGGAGGAAGCCAAGAAGTGAAGGAAGCTGAA
GGAAAAGAGTTCCGTTTGGAGATCAGCAAAGAAAGCTTCTGCTCTTTTCAGATGCGTCTAGA
AAGTGGTTTTTTAAAGCAAGAGATAAATGCGGCTGTAGAACATGCTGAAAATCCATGTCAT
AAAGAAGAACCCAGGTTCCAAAATGAACAGGACTCAAGCTGTTTGCCTAGAACCTCACAA
TTAAATGACTCTTCTGAAATGGATCCCTCAACACAGATTTCTTTAAATAGAAGAGCAGTA
GAATGGGACACCAACGGGACAGAATCTTATTAAGAAAGTGAGAAATCTTCGCCAGAGACTC
ACTGCCCGGGCTCGTCACAGATGTCAAACCCCTCATCTTTTGGCTGCATAGAATGCATGT
CACCTTGAGACGGTCGAGAGAGAGACCTATTTTGCAATCAGTGACATTGATTTTTAGATT
ATTTATTTAAATTCCTATAAAGATCAGCCCTTTGTACAGAAAAATGTGTCTATAAAAAAT
TATGTGTTATTTAATCTGATACTTTTGGCTTGTAATGGCTTCTTGAACTTTTTACAA
TAAAAATGTTTTAGAACTGTT

Gene 89. >ENST00000309336 cDNA sequence

CGCCATGCAGAGCACTGACCTAGGCAACAAGGAGAGCGGCAAGATATGGCACCGCAAGCC
GTCCCCGGCCACGCGGGACGGAATTATAGTGAACATTATTCAACAACCTCCGATTACCA
TCCAAAAGTTTTGCGATTTTTGAATGTGGCTTTTGATGGCACAGGCGACTGCTTAATTGC
TGGGGACCAACGAAGAAATATTTATGTTTTGACTTACATGGAAACAGTCACCAAGGAGC
TAGTTAGCTGGATGAGAGGACATGAATCATCAGTATTTTCGATCTCTGTGCATGCATCAG
GGAAATATGCCATCACAACTTCTTCTGATACAGCACAAATTATGGGACTTGATACCTTTTC

FIGURE 1 (CONT'D)

AGAGAAAAAGAAAGCTGAATATTGCGCAGTCTGTGGGTATACAGAAGGTTTTCTTTCTAC
 CATTAAAGTAATACCATCCTCAGCTGTTTTAAAGATAATTCCATTTTTGCCTGGGAATGTG
 ACACACTTTTTTGCAAATATCAATTGCCAGCTCCACCTGAAAGCTCTAGTATATTATACA
 AAGTGTGTGCTGTAACCAGAGATGGCCGAATCCTGGCTGCTGGAGGCAAGTCAAATCATC
 TTCATTTGTGGTGCTTGGAAGCTAGGCAGCTCTTTAGAATTATCCAGATGCCCACTAAAG
 TTCGAGCCATTGCGCATCTGGAATTTCTTCCTGATAGTTTTGATGCTGGTTCTAATCAGG
 TTCCTGGAGTACTAAGTCAAGATGGTATTATGAGATTTATCAATATGCAGACTTGTA AAC
 TTCCTTTGAGATTGGGAGCCTCGATGAAGGAATTAGCTCATCAGCAATTAGCCCATG
 GACGGTACATTGCATCTATTATGGA AAATGGAAGTCTAAACATATATTAGTTTCAGGCTT
 TAACACAAGAAATAAATAAGCCACCTCCGCCTTTAGTGAAAGTTATTGAAGATTTGCCCA
 AGAATAAACTGAGTTCCAGTGATCTTAAGATGAAAGTAACATCAGGGAGAGTACAGCAGC
 CAGCAAAATCTAGGGAAAGCAAAATGCAAACTAGAATATTA AAAACAAGACCTGACTGGTG
 ATTTTGAAAGTAAAAAGAATGAATTACCAGATGGATTAAACAAAAAGCGTTTACAAATCT
 TATTA AAAGGCTATGGTGAATATCCAACAAAATACAGAATGTTCAATTTGGCGCTCTCTGC
 TACAACCTGCCTGAAATCATACTGCGTTTAGTACCCTCATAGATAAGGGGACTCATGTGG
 CATTTCTCAACCTTCAGAAGAAATACCCCATCAAAAGTAGGAAGCTACTCAGAGTATTAC
 AGAGAACCTTATCTGCATTAGCTCACTGGTCTGTCTATTTTTAGTGACACACCATATCTTC
 CACTCTTGGCATTTCCATTTGTAAATATTATCCAGAACAACCAACTCATCTGTTTTGAAG
 TTATTGCTACTCTCATAATCAATTGGTGTCAACACTGGTTTGAATATTTTCTAATCCTC
 CTATCAATATTCTTAGCATGATAGAAAATGTTTTGGCATTTTATGACAAGGAACTGCTGC
 AACACTTCATAGATCATGATATAACCTCCCAGCTATATGCATGGCCTCTTCTTGAAACTG
 TGTTCTCAGAAGTGCTGACAAGAGAGGAGTGGCTGAAATTGTTGATAATATCTTTTCCA
 ACCATCCTTCTTCTCTTCTGATGACTGTTGTAGCCTACAACATATGTTCTAGAACGCCTC
 TGCTCAGCTGTAATCTTAAAGATGACTTTGAGTTTTTTTTTACCATCGGAATAACCTGG
 ATATAAATGTTGTGATTAGACAAGTTTATCATCTCATGGAGACCACGCCTACTGACATTC
 ATCCAGACAGCATGCTTAATGTTTTTGTGTGCACTGACAAAAGGGCAGTATCCAGTATTTA
 ATCAATATCCAAAGTTTATTGTGGACTATCAAAACACAGGAACGAGAAAGAATAAGGAATG
 ATGAATTGGATTACTTAAGAGAGAGACAGTTGAAGATATGCAAGCTAAAGTCGACCAAGCA
 AAGAGTTGAAGATGAAGCTTGGTACCAGAAACAGGAGCTGCTTCGTAAAGCTGAAGAAAC
 AAGAAGAGAAATGCTCTTACAAGAGGAGGAGAAAATGATACAACAAAGACAGAGGCTAGC
 TGCTGTGAAAAGAGAGCTGAAAGTAAAGGAAATGCACTTACAAGATGCTGCAAGAAGGCG
 TTTTCTGAAGCTTCAGCAAGATCAACAGGAAATGGAAC TAAGAAGACTGGATGATGAAAT
 TGGGAGAAAGGTATATATGAGAGATCGAGAAATTGCTGCCACAGCCAGAGACCTAGAAAT
 GAGACAGCTGGAACCTCGAATCAAAAAGAGACTTTATGAGAAGAATCTTACTGAAAATCA
 AGAAGCTCTTGCAAAAGAAATGCGAGCAGATGCAGATGCCTATAGACGAAAAGTGGATCT
 TGAAGAACACATGTTTCATAAGCTGATAGAAGCAGGTGAAACCCAGAGCCAGAAAACCTCA
 GAAGTGGAAGGAAGCTGAAGGAAAAGAGTTCCGTTTGAGATCAGCAAAGAAAGCTTCTGC
 TCTTTCAGATGCGTCTAGAAAGTGGTTTTTAAAGCAAGAGATAAATGCGGCTGTAGAACA
 TGCTGAAAATCCATGTCTATAAGAAAGAACCCAGGTTCCAAAATGAACAGGACTCAAGCTG
 TTTGCCTAGAACCTCACAATTAAATGACTCTTCTGAAATGGATCCCTCAACACAGATTTTC
 TTTAAATAGAAGAGCAGTAGAATGGGACACCACGGGACAGAATCTTATTAAGAAAGTGAG
 AAATCTTCGCCAGAGACTCACTGCCCGGGCTCGTCAAGATGTCAAACCCCTCATCTTTT
 GGCTGCATAGAATGCATGTACCTTGAGACGGTCGAGAGAGAGACCTATTTTGCAATCAG
 TGACATTGATTTTTAGATTATTTATTTAAATTCCTATAAAGATCAGCCCTTTGTACAGA
 AAAATGTGTCTATAAAAATTATGTGTTATTTAATTCTGATACTTTTTGGCTTGTAATGG
 CTTCTTGAACTTTTTACAATAAAAATGTTTTAGAAACTGTT

Gene 90. >ENST00000327098 cDNA sequence

GTGACACACTTTTTTGCAAATATCAATTGCCAGCTCCACCTGAAAGCTCTAGTATATTAT
 ACAAAGTGTGTGCTGTAACCAGAGATGGCCGAATCCTGGCTGCTGGAGGCAAGTCAAATC
 ATCTTCATTTGTGGTGCTTGGAAGCTAGGCAGCTCTTTAGAATTATCCAGATGCCCACTA
 AAGTTCGAGCCATTGCGCATCTGGAATTTCTTCCTGATAGTTTTGATGCTGGTTCTAATC
 AGGTTCTTGGAGTACTAAGTCAAGATGGTATTATGAGATTTATCAATATGCAGACTTGTA
 AACTTCTCTTTGAGATTGGGAGCCTCGATGAAGGAATTAGCTCATCAGCAATTAGCCAC
 ATGGACGGTACATTGCATCTATTATGGA AAATGGAAGTCTAAACATATATTAGTTTCAGG

FIGURE 1 (CONT'D)

CTTTAACACAAGAAATAAATAAGGAAGAAGTTCTGTGCTCAAAATTAATCACACAGCGAGT
 AACTAGCAGTTCTGGGTGTTCCAATTCTTCCAAGATTACATGAGATTGGGTGCATTTGGA
 GTGGCGTTTGCCACCTTTTTTTTATTCTAAAAAAAAGTTTGTGCCTCCTCCTTTTTGTTTT
 ATCTTTTAAAAAATTATACAAGTAGTGTCTTATTGCAGAAAAAATAAGAATGTACAGAA
 TAGCAAACAGACAAATACAAATCACTGAAAGTCTCACCATTCTCAGAAGATTCTGATTTA
 TATGTTCCCAATTTCTTTTCTATGTGTGTAATATATATAGTCACTCCTCATTATTTGTG
 CATTCTATACATGAGAATTACCTGCTCACTAAAATTTATTTGTAACTTCAAAATTAATA
 GTTGCAAGTCTTTTATGGTCAATTCAGGGACATGCACAGAGCAGTGAAAATTTGAGTCACC
 AGATACCTTTTTTCCCAGCTGAAGTCAAATGAGGCAACACTCTGTCTTCTTATTTTCTGCT
 CTATAGTGTAACAAGTATCCTTTTTGTGATCTACTTAATACCATTTATTTTTTTTGCAT
 TTTGAAGCTTTTTGTAAAGATTCTACTGCTTAAAGTGGTCCCCAAGCGTAGCGCTGAAGC
 GCTATTTTATTGTTTTCTAAATAACAGGAAGGCTGTGGCTTACCTTACAGAGAAAATACATGT
 GTTAAATAAACTCATTAGGAATGAGTTATAGTGCTAAGCTGTGAGTTCAATGATAAGGA
 ATCAGCAATGTGTATTAAATAAGATGTCTTTAAACAGAAACACACATATATGTATTGATT
 GATTAAATGAGGCTCTCAGGAACCTGACTCTGTGTTTTCCCTAGGAGCAGTGTTCAGTAT
 TCACTAATCGAGTGTTTATGGTGACTTTATAGAACCCTGCAAATAGTGAGAATTAATA
 TACATATATGTTTCTGTGTGTACGCACATGTGTGTGTATGCATACTTGTCTCTAAACATA
 TGGGATTATACTCTGCTGCTGTTTTGCTCTTTATGTATTATGTATACTATATAAGTATA
 TTTTTACATTATAATATGTGCTATATATTAATAAATTTTTTTAAATGTATTAATATCTGC
 TCTTACTGAGAGAGTTTTTCTGCTGCTGAATAGTCAGTTTTTACAGTACTAGCTAAACCTT
 CTTTTCTTTTTTTTTTTTGGAGATGGAGTCTCACTCTGTCTTCCAGGCTGGAGTGCAGTGGT
 GTGATCTTGGCTCACTGCAGCCTCCGCCTCCCGAGTTCAAACAATTCTCCTGCCTCAGCC
 TCCCTAGCAGCTGGGATTACAGGCGCGTGCCACCACGCCAGCTAATTTTTGTACTTTTA
 GTAGAGATGGTGTTCACCATGTTGGCCAGGCTGCTCTTGAACTCCTGACCTTGGTGATC
 CACCCGCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGTGTCCAGCCTT
 GCAAACCTTCTTAATAGAGGCAGGCAGAGAGCTGAGAAAACTATGGTAAGAATGAGTCA
 TTGAGTTCCCTTCTGCTTGTTATCTGTTGAGCAAATTGATATCACATGAATAGAAAAGCT
 AGCTTGGAAAGTAGAATGATCTTTTTTATTTTTTGACACATTCCCAGTACCATCAGTGTCT
 TTATGGCTGTTCCAGGCTACATTAATGTTCAATTCTATATTCTCTATAAATCATAACTCA
 CCTTTGTCTCATTTTTTACCAGTTTTATTTTTCTTGTCAATTGGAGAATTTCTGGTATTGTGG
 TAATAGAGTAAATGAATTCTTAAGTGTTGAAGGTTTAACTACAAAGGTATGTCAAGTC
 AGGTTGTTTTCTCAGGTTCTTTTTTGGGAGGTTATACTTTCATGGTAGAGGATAAGGCTCAA
 ACGGGAAATTGTGACATTTTAATAAATTTTAATTTTAATAAAATTTTAGTAAATTTTCT

Gene 91. >ENST00000314393 cDNA sequence

CTCCGTACGGGGGCTTTTTCTGTCTGTCTGTCTGGCTGGCAGGCTGGCTTTCCCCCTCTT
 TCCCACGGAGCCCGAGCCGGGCGCCCGGTGGGGAGTGGGGAGTGGGTGGGGGGAGCCAGC
 AGAGTTCCATTTTGGAACGCCCGTGCCGCGTCTCCGCGTTCCAGCCCGGGTCCCCGCGT
 TCACAGCCCCAGCGCAGGTCTGGATGTACCGACTGCTTTTGGAAATAAAAAGATTCCCAGG
 ATGTGAGCAACAACGGGACCGATATGATGCTTCTGGTGTGTTTAGTGGTTGGTGCCATTC
 CAATTTTCTGTGCTGAAATCATTTCTGAAAACTCAAACAGTAGACTTCAGCACACAAGGAA
 AGCCAAAGCCATTTGAGGGGGAATAAAGCCAAAAGCCTTTTCACTTATTCGTTCCAAGAA
 TCTCACCGCCCCCTCCTTATCCCCCTCAAAAAATAAGCCATTGCACACAGACAGGCAGCA
 TGGCTAGCAAAACGAAAATCTACAACTCCATGCATGGTTCCGACATCACAAGTAGTAGAAC
 AAGATGTGCCCGAGGAAGTAGACAGGGCCAAAGAGAAAAGGAATCGGCACACCACAGCCTG
 ACGTGGCCAAGGACAGTTGGGCAGCAGAACTTGAAAACTCTTCCAAAGAAAACGAAGTGA
 TAGAGGTGAAATCTATGGGGGAAAGCCAGTCCAAAAAATCTCAAGGTGGTTATGAGTGCA
 AATACTGCCCCCTACTCCACGCAAAACCTGAACGAGTTCACGGAGCATGTGACATGCAGC
 ATCCCAACGTGATTCTCAACCCCTCTACGTGTGTGCAGAATGTAACCTTCAACCAAAAA
 AGTACGACTCCCTATCCGACCACAACTCCAAGTTCATCCCGGGGAGGCCAACTTCAAGC
 TGAAGTTAATTAAACGCAATAATCAAACCTGTCTTGGAACAGTCCATCGAAACCACCAACC
 ATGTCTGTGTCATCACCACAGTGGCCCTGGAACCTGGTGACAGTGATTCTGGGATCTCGG
 TGAGTAAAACCCCATCATGAAGCCTGGAAAAACAAAAGCGGATGCCAAGAAGGTGCCCA
 AGAAGCCCAGGAGATCACCCCGAGAACACAGTGAAGGGACCGCCCGCCTGGTGACAG
 ACACAGCTGAGATCCTCTCGAGACTCGGCGGGGTGGAGCTCCTCCAAGACACATTAGGAC

FIGURE 1 (CONT'D)

ACGTCATGCCTTCTGTACAGCTGCCACCAAATATCAACCTTGTGCCCAAGGTCCCTGTCC
 CACTAAATACTACCAAATACAACCTCTGCCCTGGATACAAATGCCACGATGATCAACTCTT
 TCAACAAGTTTCTTACCCGACCCAGGCTGAGTTGTCTGGCTGACAGCTGCCTCCAAAC
 ACCCAGAGGAGCACATCAGAATCTGGTTTGCCACCCAGCGCTTAAAGCATGGCATCAGCT
 GGTCCCCAGAAGAGGTGGAGGAGGCCCGGAAGAAGATGTTCAACGGCACCATCCAGTCAG
 TACCCCGGACCATCACTGTGCTGCCCGCCAGTTGGCCCCCAAAAGGTGACGCAGCCCA
 TCCTCCAGACGGCTCTACCGTGCCAGATCCTCGGCCAGACTAGCCTGGTGCTGACTCAGG
 TGACCAGCGGGTCAAACAACCGTCTCTTGCTCCCCCATCACACTTGCCGTGGCAGGAGTCA
 CCAACCATGGCCAGAAGAGACCCCTTGGTGACTCCCCAAGCTGCCCCGAACCCAAGCGTC
 CACACATCGCTCAGGTGCCAGAGCCCCACCCAAGGTGGCCAACCCCCGCTCACACCAG
 CCAGTGACCGCAAGAAGACAAAGGAGCAGATAGCACATCTCAAGGCCAGCTTTCTCCAGA
 GCCAGTTCCCTGACGATGCCGAGGTTTACCGGCTCATCGAGGTGACTGGCCTTGCCAGGA
 GCGAGATCAAGAAGTGGTTTCAGTGACCACCGATATCGGTGTCAAAGGGGCATCGTCCACA
 TCACCAGCGAATCCCTTGCCAAAGACCAGTTGGCCATCGCGGCCTCCCGACACGGTCGCA
 CGTATCATGCGTACCCAGACTTTGCCCCCAGAAGTTCAAAGAGAAAAACAGGGGTGAGG
 TTAATAATCTTGGAAGACAGCTTTTTTGAAAAGTTCTTTTCTTACCCAAGCAGAACTGGATC
 GGCTAAGGGTGGAGACCAAGCTGAGCAGGAGAGAGATCGACTCCTGGTTCTCGGAGAGGC
 GGAAGCTTCGAGACAGCATGGAACAAGCTGTCTTGATTCCATGGGGTCTGGCAAAAAAG
 GCCAAGATGTGGGAGCCCCCAATGGTGCTCTGTCTCGACTCGACCAGCTCTCCGGTGCCC
 AGTTAACAAGTTCTCTGCCAGCCCTTCGCCAGCAATTGCAAAAAGTCAAGAACAGGTTTC
 ATCTCCTGAGGAGCACGTTTGCAAGAACCAGTGCCCTACTCCCAGGAGTACGACCAGT
 TAGCGGCCAAGACTGGCCTGGTCCGAAGTGAAGTGTGCGTTGGTTCAAGGAGAACAGAT
 GCTTGCTGAAAACGGGAACCGTGAAGTGGATGGAGCAGTACCAGCACCAGCCCATGGCAG
 ATGATCACGGCTACGATGCCGTAGCAAGGAAAGCAACAAAACCCATGGCCGAGAGCCCAA
 AGAACGGGGGTGATGTGGTTCCACAATATTACAAGGACCCAAAAAGCTCTGCGAAGAGG
 ACTTGGAGAAGTTGGTGACCAGGGTAAAAGTAGGCAGCGAGCCAGCAAAAGACTGTTTGC
 CAGCAAAGCCCTCAGAGGCCACCTCAGACCGGTGAGAGGGCAGCAGCCGGGACGGCCAGG
 GTAGCGACGAGAACGAGGAGTCGAGCGTTGTGGATTACGTGGAGGTGACGGTCGGGGAGG
 AGGATGCGATCTCAGATAGATCAGATAGCTGGAGTCAGGCTGCGGCAGAAGGTGTGTGCG
 AACTGGCTGAATCAGACTCCGACTGCGTCCCTGCAGAGGCTGGCCAGGCCTAGACAGGGA
 AGTCTGTTAGAACTGCTGTGCTGATCAACGGGACGCTCCGTCTTTGAAGAAAGAAGAGAT
 GGTCTCTCCCAGCCATGGGCCACCCCTTGCCAGTGACTCCAAGTGGAACTACTTAGCTCG
 CGTGTGCCTGGAGGGTGCGGGAAGTCCAGCGACTCTCAGACGCACCTCCCAGAGGACCGG
 TGGGAATTGTTTCATAGTGCCAAAGTCTACTACTGCGTTTTCAATGGGTCTTGTACATA
 GTTTGCTCCTCTGCCCTAGCCCTCACCTCTTGCTATACTGGAACCGATTTGTACAATGTG
 GGAATTTTGTGTACCTTTTTTAATCAAGGGCAACTTCTTTTTCCAGCACTACCATTTGTAAGG
 TTTTTTTTTCAGGAGGGAGGGCTAACCACTTGCTTTTTCTTTTTCTTTTTTTTTTTTT
 ATTTTTGTTTTATTATTTTGGGGAAAGGGGTGTTAGCATTAGTGCCATGATATCTACTGG
 ATTTTAAGTAGGGAGACTTTATTTTTAAAGGTAGGTTGAAATTTGGGAGATTTCTCGGCA
 GGAAGGGCTGAAATCCAGGCCCTGTCTCAACTTGGAGAGAGGTGACAGACGGCAGATCT
 TCCAAATCAAATTCCTTTCCAGTTCTTCCCCTGGCTGCCTTTTTTGGGGGTCCCTGCCTTA
 GCCCCACACAAGGCTTTCTGAACTGCCAAGAGGGGATCTGGCTTCTCAACTGCTCGGCCT
 CTTGGGCCAGGCTGTGCCCAGCCAGCCCTGGGAGAACTGGGTAGCAGGTGGCTGACTTCT
 TTAAGCACCTTTCTAAATACCAGCAGAAGAGGCTCCCGCCTCTGTTAGCATGATCAGTAC
 TATTGTGACATTAAAAACAACAATAAGATCTTCTATCTGGAGGGTACAGAGGTGAAT
 GGCTTTGGTTTTTCATTTCTCTTCTTCACTGCCTTTTTCTCGGTGTGGTATTTGACAAGATT
 TTAGCTCAAAGCCTCACCATGAATTGATTTTTTTTTGTTTGTGTGTGTGTTTGTGTTGGGA
 CAATTTTAGATACCTGAGTGCACTTTTTTCACTTAGTCCTAACTTTTAAAGAAAGGAAAAAC
 CAAGAGACATATCTGGTGACGTGTTGCAGTATGAACTCTGGTTGCAATCCCTCCCCGTC
 CCACACTGCCCCCATTTGAGTACACCGCAAGTCAAACGCTAGGAAGTTTGAATAAAA
 CCAATTTTTCTAACTTGTTGCTCATTTGTTGTAACCTCAATAAAGCAAAGACTAAACATTT
 TT

Gene 92. >ENST00000328524 cDNA sequence

CTGGAGAAGATTGGGGAAGGCCAATATGGGACAGTGTTCAAGGCCAAAAACTGGGAGACT

FIGURE 1 (CONT'D)

CATGAGATTGTGGCTCTGAAATGGGTGAGGCTGGATGACAATGATGACGGTGTGCCGAGT
TCTGCCCTCCGGGAGATCTGCCTACTCAAGGAGCTGAAGCACAAGAACATCGTCAGGCTT
CATGACCTCCTGCACAGCGACAAGAAGCTGACTTTGGTTTTCAAATTCTGTCAACAGCAC
CTGAAAAAGTATTTTGACAGTTGCAATGGTGATCTCGATCCTGAGATTGTAAAGTCATTT
CTCTTCAGCTGCTAAAAGGCCTCGGATTCTGTACAGCCGCAATGTGCTACGCAGGGAC
CTGAAGCCCCAGAACCTGCTAATAAACAGGAATGGGGAGCTGAAATTGGCTGACTTTGGC
CTGTCTCGAGCCTTTGGGTCCCCATCTGCTGTTACTGAGGGAGTGGTCACTGTGGTAC
CACCCACCAGATGTCTTCTTTGGGGCCAAGCTGTACTCCACGTCATTGACTTGTGGTCA
GCTGGCTGCATCTTTGCAGAGCTGGCCAATGCTGGATGGCCTCTTTTTCCAGGCAATGAC
GTCGATGACCAGTTGAAGAGGATCTTCTGGCTGCTAGGGATGCTCACCAAGGAGCAGTGG
CCCTCCATGACCAAGCTGCCAGACTATAAGCTGTACCCATTGTACCCGGCCACAACATCC
CTGGTGAACATCGTGCCCAAACTCAGTGCCACAGGGAGGGATCTGCTGCAGAATCTTCTG
AAGTGTAAACCCCTGCCAATGTATCTCAGCAGAAGAGGCCCTGCAGTACCCCTACTTT

Gene 93. >ENST00000297857 cDNA sequence

ACAGGTGAGATTGACTCCCTGAAAAGTGCAGCCGGTTTGAAATGCAAGATGGCGGCGGC
GTGGCGCTGAGAGGCGCGGCGGCCCTGCAGGAGAAGACAGACTGCTGCTTTGGACCTGT
TGGTAATGATGGCCTGAGCTAAACATCTAAGTAGAAGGGATACCTTCCATTTCAAAGAA
CAGAATGCTAAGGAAGCTGTGGCAAGTGATTGGAGTTGTGCTTCAAAAATTTAGAAATT
CAGCAGTATTTTATCTGCCAACATAAGCTCTTTACTTGATTGCACCATGAGAAAGCTGC
TAATGAGACTTGTGAGCACAATAAGCTCTTTACTTGATTGCACCATGAGAAAGCTGC
GAAGAACACTGAACAGTTTAAAGCCTCGATGCTTTTTAATCACCCTGAGCTTTTCTCA
TAAATCAGAAATGGCAAGCAGGCGAAAATCAACAACACCTTGATGGTCCTTGCCAGTGA
ACAAGATCCAGACCTTGAGTTGATATCAGATTTGGATGAAGGTCCTCCTGTGCTTACACC
TGTAAGAAAACACCAGAGCAGAGAGTATCTCAAGTGATGAAGAGGTTATGAATCTGTGGA
TTCAGACAATCAGCAAAAATAAAAAAGTTGAAGGTGGATATGAATGTAAATATTGTACTTT
TCAAATCCAGATCTAAATATGTTTACTTTTCTGTTGATTTCGGAAATCCCAATGTAGT
GCTAAATTATCCTATGTTTGTGTGCAATTTTCTTACCAAAGGTATGATGCACT
TTCTGAGCATAATCTGAAATATCACCCAGGAGAAGAGAATTTTAAAGTTGACTATGGTGAA
ACGTAATAACAGACAATCTTTGAACAAAATAAATGATCTGACTTTTGATGGTAGTTT
TGTTAAAGAGGAGAATGCAGAGCAAGCAGAATCTACAGAAGTTTCTTCTTCGGAATATC
TATCAGTAAACTCCTATCATGAAATGATGAAAAATAAAGTGGAAAATAAACCGGATTGC
AGTTTCATCATAACTCAGTTGAGGACGTTTCTGAAGAGAAAGAGAATGAAATCAAACCGA
CCGTGAAGAAATTGTAGAAAATCCAAGTTCTTCAGCTTCTGAATCTAATACAAGTACTTC
CATTGTAAACAGAATACATCCAAGTACTGCCAGCACGGTAGTGACACCAGCAGCAGTTCT
TCCTGGATTGGCACAGGTGATAACTGCTGTATCTGCTCAGCAGAATTCTAATTTGATTCC
CAAAGTCTTAATCCCTGTTAATAGCATTCCACCTACAATGCTGCATTGGATAACAATCC
CCTTTTACTTTAACACCTACAACAAGTTCCCTTACCCAACAATGTGAGAAATTACAGTTCT
TTCTGCTCAAGCAAAATATAAGAGGAACAGATCAAGATATGGTTTTTCAAGCCCAACGTTT
AAAACATGGTGTTAGTTGGACTCCCGAGGAAGTAGAGGAGGCAAGAAGGAAACAATTCAA
TGGAACAGTGCATACTGTACCTCAGACCATAACTGTTATTCTACACACATTTCCACAGG
GAGTAATGGTTTACCATCTATTTTACAGACATGCCAAATAGTTGGTCAGCCTGGTCTGGT
CCTTACTCAAGTGGCTGGAACAAAACCTTGCCAGTTACAGCACCTATAGCCTTGACAGT
GGCAGGCGTTCCAAGTCAAAATAATATAAGAAAAGTCAGGTACCTGCTGCTCAGCCTAC
TGCAGAAACAAAGCCAGCAAAGCAGCAGGTTTCAACTTCTCAAAGTGTCAAACATGAAAC
TGCAATTGGTAAACCTGATTCAATTTGGCATTTCGGGCAAAAAGAGCAAAAGAGCAACTGGC
AGAATTAAGGTTAGTACCTTAAAAATCAGTTTCCCATGATTTCAGAAATTATCAGACT
TATGAAATAACAGGCCTGACGAAAGGAGAGATTAAAAATGGTTTGTAGTACACAAGGTA
CAACCAGAGAAATTCAAAGAGTAATCAGTGCTTACATCTCAACAATGATTCTCTACCAC
CATTATTATAGACTCCAGTGATGAAACACCGGAATCCCCAACTGTTGGTACTGCACAGCC
TAAGCAATCCTGGAATCCTTTTCTGACTTTACTCCCCAAAGTTTAAAGAGAAAACCTGC
AGAGCAGCTTCGTGTCCTTCAGGCAAGTTTTCTCAACAGCTCTGTACTTACAGATGAAGA
ATTAAATAGGTTAAGGGCACAAACCAAACTTACCAGAAGAGAAATCGATGCTTGGTTTAC
AGAGAAGAAGAAATCAAAGCTTTAAAGGAAGAGAAAATGGAAATAGATGAAAGTAATGC
AGGTAGTTCCAAAGAAGAAGCTGGAGAACTTCTCCTGCAGATGAATCTGGTGCACCTAA

FIGURE 1 (CONT'D)

GTCAGGGAGTACAGGCAAGATATGTAAAAAACACCTGAGCAGCTGCACATGCTTAAGAG
 TGCATTTGTCCGGACACAGTGGCCATCACAGAAAGATATGACAAGTTGGCCAAAGAAAG
 CGGGCTTGCTAGAACAGACATAGTTAGTTGGTTTGGGGACACCGTTATGCTTGGAAGAA
 TGGAAACTTGAAATGGTACTACTACTATCAGAGCGCCAATTCAAGTAGTATGAATGGTCT
 GTCTTCCCTTAGGAAAAGAGGGAGAGGGAGACCCAAAGGACGGGGAAGAGGAAGACCGCG
 TGGGCGGCCTAGAGGAAGCAAAAGAATTAACAACCTGGGACAGGGGACCATCACTCATAAA
 ATTTAAACTGGAACCTGCAATACTTAAGGATTATTACCTGAAGCACAAGTTTCTTAATGA
 GCAAGACCTTGATGAACTTGTTAACAAATCACATATGGGCTATGAGCAGGTGAGAGAGTG
 GTTTGCAGAAAGACAGAGAAGATCAGAATTAGGTATAGAATTATTTGAGGAAAATGAGGA
 GGAAGATGAAGTTATTGATGACCAGGAAGAGGATGAAGAAGAAAAGATGATAGTGACAC
 TTGGGAACCTCCACGACATGTGAAACGGAAGCTGTCTAAATCAGATGACTGAAATCTGCC
 TAAAACGTTGAAGGAGAATCAATTCCTCAACTCAAGATGTCTGATTTACTGTGAATTTGC
 CCAATCTTTGATGACATTGAAAACGTTTTGGGGCATACACACTCAAAAAGCAGGATCCAA
 TACCCAAAAGAAATGGAACCTTAATGTTGTGCCAAAGTTAACTACTGCAGTTGGTGGAAG
 TTCTGCAATGTAAATAGAACACTAATTA AAAACAACCTGTAAAAATGCAATTTAAATTT
 TAATACAGTACATTTTTCTTCTAATATGATGGAGACATTCTGAATCTTAGACTTTCTGAG
 GGGGTTTAATGACCACTAGAGCTTGTCTCATATTGAGTCCAGTTTAATACTGTATGTCT
 AGTAAGATGGGCTATATATTGCCTCTATTCTTTGAGATGTGATTAAGCTTAGAACTTTGA
 CCAAAAATTTTACAGTAAAAATTGTTAGAAATGGGTAAAAA AAAAAAAAAAAAAAACC
 CTGATTTATTACTATGTCTTATTTATCAGACCCTGCACTAAGATTAAAAGTTGTGCATGG
 GCTTATACAATTTCAAATGTAAAAACAGCCTATTTATATATGTTGAAACAATAAGATTTT
 ATGGTTTCACTGGCCCTTAATAATTGGATCCTTCATTAAACACATCCATGAATACCACTG
 TTTCTACTGTTACTTGTTCATTAGAAGCTGATTTGCTTTTTATTAACTGCAGGAAATT
 AATTCTGAAGAAGGAAAAGAACTGACATGGTAATTTGGATAGGGTGAAGCTTTGAAATA
 AATACTGCACCAAAAATGTGAAAAAGAATCACGTAGTAAATGTATACTTAGTGTTTTCTT
 ACAATCGTGGAAATCAGAAATGTTTATACAGGTGTGAGATCAGAATTTTAAAGAGTTATC
 TTTGAGTAAAAGTTAGCTTTTCACTTATGAATCATGGGAGTGTTAACTGTTAACTCTTGCC
 GTATCAGGAGACTGAAAGTTCACTAATTTACAACTTTGTAAAGACTGGTGCTGTTCA
 TTCATATTGGGAAGAACCCTTTCTTTGTGACCATAGGACCATTTTTCAAATGCGCTTT
 CTTCTGTAAGAAATGTTGAGTTTAAATAGCTTTGGATTTTAAACATGTTTTCTGAATGA
 CCAGATGTAGGCTTAGCCAGTTTATTTTCTCTAATTTAATGGATAATAAATATTAAGCTC
 TTGGTTAAATGTTTTTCAAGCATTGAAAATGTTATGAAAAAGCCTTGAATATGCATGCTG
 CTTTCATTTTTATAAATTTTTATTTTTTAACTATAGCTTTATTAGTAATCCAAAATGC
 TGCAATGTAGCTGATTTCTCACTCAGACAGCTGGCTTTGTGGGTGGCTTTTTTCACT
 ACTGTTAACTTTTTTAAAAAAGAAGCAATGTAAAGACCGTAATGCACTAAGCTTTTTTTT
 TTTCTTTTACAGTTTTAAAACTTCTTAAAGCACTCTGTAATATAATGATTAAATTGCTC
 CCTTTTATAAACATTGCTAATGTGGTCTGAGTTTTGTTTGACAATAATTTAATGTTCTC
 AAAATTTGAAATGTCAAGTATTAGAAATGAAGCCTTTGAATATAGTTGTTTCCCTTGCAA
 TATGTTAACTCTGTGTAGCTGTATATACTATTAATTTCCCTCATCTCTTTTATAGGCCT
 GATAAACTCTTCTCTGACGTTTGCTAGCTTTTAAATATATTTATTTGACAGAGCAAAAG
 AACCTCTTCTGGTTGATTGTGACCTTGAATACAAAATAAAAGTAGTGATTAG

Gene 94. >ENST00000276704 cDNA sequence

GCTTCCTCGTTGCCCCCGCCGCGGGCGCGAGATGGATTCCGGGTGCTGGTTGTTCCGGCGG
 CGAGTTCGAGGACTCGGTGTTTCGAGGAGAGGCCGGAGCGGCGGTGAGGACCGCCCGCTC
 CTACTGCGCCAAGCTCTGCGAGCCGAGTGGTTTTATGAAGAAAAGAAAGCAGTGATGA
 TGTTGAAGTGCTGACTCTCAAGAAATCAAAGGAGACCTGGCCTACAGACGACAAGAGTA
 TCAGAAAGCACTGCAGGAGTATTCAGTATCTCTGAAAAATTGTCATCAACCAATTTTGC
 CATGAAAAGGGATGTCCAGGAAGGTGAGGCTCGGTGTCTGGCTCACCTGGGTAGGCATAT
 GGAGGCGCTGGAGATTGCTGCAAACTTGAAAAATAAAGCAACCAACACAGACCATTTAAC
 CACGGTACTCTACCTCCAGCTTGCTATTTGTTCAAGTTTGAGAACTTGAGAGAAAACAAT
 TTTCTGCCTGCAGAACTGATTTCTTTGCATCCTTTAATCCTTGGAAGTGGGGCAAATT
 GGCAGAGGCTTACCTGAATCTGGGGCCAGCTCTTTCAGCAGCACTTGCCTCATCTCAGAA
 ACAGCACAGTTTCACTCAAGTGACAAAATATCAAATCCTTCTTTCCACACTCAGGAAA

FIGURE 1 (CONT'D)

AGACTGTCTTTTGTGTTTTCTGAAACCTTGCTGAGAGCTCTTTATTTTCTGTGGAAGC
GAATAGCAGTAATAGCCAGAAAAATGAGAAAGCTCTGACAAATATCCAAAACGTATGGC
AGAAAAGAGAGAAACAGTGTTGATAGAGACTCAGCTGAAAGCATGTGCCTCTTTTATACG
AACCAGGCTTCTGCTTCAGTTTACCCAACCTCAGCAAACATCGTTTGCTTTGGAGAGGAA
CTTAAGGACTCAGCAGGAAATTGAAGATAAAATGAAAGGGTTCAGCTTCAAAGAAGACAC
TTTGCTGTTGATAGCTGAGGTTATGGGAGAAGATATCCAGAAAAAATAAAGATGAAGT
TCACCCAGAGGTGAAGTGTGTTGGCTCCGTAGCCCTGACTGCCTTGGTGACTGTATCCTC
AGAAGAATTTGAAGACAAGTGGTTCAGAAAGATCAAAGACCATTTCTGTCCATTTGAAAA
TCAGTTCCATACAGAGATACAAATCTTGGCTTAGTGGGTTATAAAAAACAAAACCAAAA
TATCTTGTACTGTATTAATTGTCCTTGTTTACTTCAGACAGGATCCATTGCTAATCATGG
AGTATAAATGATTATTTATGTTTTAT

Gene 95. >ENST00000318462 cDNA sequence

GATGACTTGGAGAACAGTCACCTTCCTCTTTCTGGGCTACAGTTTTCTCATCAGTAACTGA
AGAGCTTGCACTACCTTCAACATTCTTCAGGTGAGGACTTCTCTTTGATCACTGCTATG
GTTTGAATGTGTCTCCTAAAGTTTCATGTGTTGGAAGCTTGATCCCAGTGCAAAAGTGTT
GGGAGGTGGGGCCTAATGAGAAGTAATTAGGCCATGAGTATTCTGCCCTCATGTATTAT
GAGATTAATGTCAATTATCATGGGAGCGGGTTTTGTTAAAATGAGTTTCGGCCCCTTCTCTCT
CTCTCTTTCTTCTGCCATACAGTATGGGATGCACAGTGCAGAAGGCTTACCAGATACTG
GCACCATGCTTTTGGACTTCTCAGCCCCCAGAACCATGAGCCAAATAAATTTCTGTTTAT
TATAAATCACCCAGTCTGTGGCATCCTGTTAGAGCAGCATAAATGGACTAAGATAATCCC
TATAAAGAGTGGCAACAGAACAGTTCCAGCTCACTGGCAGAATCCTATGATCAACTAGT
AATGTCTGCCAGGGAAGGAGGATGAGTGGCACTAACATGTACGGTGTGTTTGTCTCACTGT
TCTACAGGATTCAACTAGAATCTCTGGGTCTGTGTGAAGACCAAGAGCTGGGAACAGAAG
CAGGGCTCTAGAGGGAAAAGTTTCTTTTCGGATTCTTTTTTTTTGTTTTGTTTTAAAGAGC
TGCTCTGTGAGAAGACAAGGAGAAAATGGTCCCTACAGGATACTCACCTCTGTCTCAGGG
AGACACTCAAGCATTATTTCAACCAAGAAAGAGAATTAGTTCAGGTGAAAGGAGAACCC
CAGAATACCCACCTACTTTTTAAATTTCTCCCTATGCATATTAGGAACCAATCAGAGGA
TCTGTAATGCGCTGTGAGTAGAAAGGGAAGGGGAATGGGAAAGAAAAAGTGAAGCTTGG
AATGGTGGAAAGTACATGGGCTCTGCCATTTACCAGCTAAGTGATCTTGGGCAAGTAACT
TGACCTTTCTGAGCCTCGGTTTTCTCTTTGGTGAAATGAGGACTAATAATCATTCTCTCC
CTCAGTACAGACAGCCAGCATGCAGTGAGCACTCAGCGATGGCCAAGTATGGGAGAAGCC
ATGCTGGAATGAACATGTGGGACCATTTTGTGCAGTTTTCTCAGCGCCAACACTGACTGGT
CCCCTGGGCTCGTGGGCCCGCCGCGCAGCCTCGGCTCGTTCTCCAGACAGTGTTCCAAGAAG
CCACTTCCAGCGAGGAAGCGTTGGCCTGAGAACTGGAACCTCTGCGGTCTCTGCAAAACAC
GACAATGACAAACACTTGAGAGGGCATGGGAGAAAGGAGCTCCTTCATAGGGCAGGGAGG
GGTGGGCACTTGGGTGTGACCAAGGAGAGGAGGCGCGCCTGGTCAACAGCTCTCCCTGGC
CCGTGTCCAGCTCCCTCCTCACACAGAGAGGGGGCGCATCTCAGGGATGGCATCTTTCC
CCCCACAGGGAAATTTCTTATCTTTGAAACAGCATGGGAATCGAGGCACCCAGGAGGGGA
GCAGAGGCAGGCAGGCCTCCTTCAGGCCCATCCTCCAGCTGGGCTGGTGGTGCCAGGGAG
GCTCCCTGCTTGGTAACAAAGGCCTGAGGGAGAGTTGCGAAACCCAGCAGGAAAGCCGGC
TCACCTTCGCCTCCCTGCGGCTGGGAGGAGAGGAAATATCCCATGGCTGACTGTGCCA
AGGAGGTGTCTGAGCCAGCCCTCCCGGCCGAGGGCAGGGCAGGTGGCCCTGAGAGATAA
GCCAATCCCGCAGCTGCAGATGAGGAGTTCTGAGAAGCATTGCTCAGGACAGCGGTAAAT
CACTTCTTGGAGGTGCCCTGCACGCCGGTCTGGGAGCAGGCGGCCTCCCGGGGGTGC GG
GAGCCCCACTCTCCGTGGTGTGTTCCATTTGCTTCCCACATCTGGAGGAGCTGACGTGC
CAGCCTCCCCCAGCACCAACCCAGGGACGGGAGGCATGAGCCGGTCAAGGCACCTGGGCAA
AATCCGGAAGCGTCTGGAAGATGTCAAGAGCCAGTGGGTCCGGCCAGCCAGGGCTGACTT
TAGTGACAACGAGAGTGCCCGGCTGGCCACGGACGCCCTCTTGGATGGGGGTTCTGAAGC
CTACTGGCGGGTGCTCAGCCAGGAAGGCGAGGTGGACTTCTTGTCTCGGTGGAGGCCCA
GTACATCCAGGCCCAGGCCAGGGAGCCCCCGTGTCCCCCAGACACCCTGGGAGGGGCGGA
AGCAGGCCCTAAGGGACTGGACTCCAGCTCCCTACAGTCCGGCACCTACTTCCCTGTGGC
CTCAGAGGGCAGCGAGCCGGCCCTACTGCACAGCTGGGCCTCAGCTGAGAAGCCCTACCT
GAAGGAAAAATCCAGCGCCACTGTGTACTTCCAGACCGTCAAGCACAAACATCAGAGA
CCTCGTCCGCCGCTGCATCACCCGGAAGTAGCCAGAACATTTCCATCCGGAGTGTGGAAGG

FIGURE 1 (CONT'D)

AGAGATATACTGTGCCAAGTCAGGCAGGAAATTCGCTGGCCAAATCCGGGAGAAGTTCAT
CATCTCGGACTGGAGATTTGTCCTGTCTGGATCTTACAGCTTCACCTGGCTCTGCGGACA
CGTGACACCGGAACATCCTCTCCAAGTTCACAGGCCAGGCGGTGGAGCTGTTTGACGAGGA
GTTCCGCCACCTCTACGCCTCCTCCAAGCCTGTGATGGGCCTGAAGTCCCGCGGCTGGT
CGCCCCGTCCCGCCCGGAGCAGCCCCGGCCAATGGCCGCCTTAGCAGCAGCAGTGGCTC
CGCCAGTGACCGCACGTCTCCAACCCCTTCAGCGGCCGCTCGGCAGGCAGCCACCCCGG
TACCCGAAGT

Gene 96. >ENST00000276699 cDNA sequence

CTGCGGCTGGGAGGAGAGGAAATATCCCATGGCTGACTGTGCCAAGGAGGTGTCTGAGCC
AGCCCTCCCGGCCCGAGGGCAGGGCAGGTGGCCCTGAGAGATAAGCCAATCCCGCAGCTG
CAGATGAGGAGTTCTGAGAAGCATTGCTCAGGACAGCGGTAAATCACTTCTTGAGGTGC
CCTGCACGCCGGTCTCTGGGAGCAGGCGGCCCTCCCGGGGGTGCGGGAGCCCCACTCCTCCG
TGGTGTGTTCCATTTGCTTCCACATCTGGAGGAGCTGACGTGCCAGCCTCCCCAGCAC
CACCCAGGGACGGGAGGCATGAGCCGGTCAAGGCACCTGGGCAAAATCCGGAAGCGTCTG
GAAGATGTCAAGAGCCAGTGGGTCCGGCCAGCCAGGGCTGACTTTAGTGACAACGAGAGT
GCCCCGCTGGCCACGGACGCCCTCTTGATGGGGGTTCTGAAGCCTACTGGCGGGTGCTC
AGCCAGGAAGGCGAGGTGGACTTCTTGTCCTCGGTGGAGGCCAGTACATCCAGGCCAG
GCCAGGGAGCCCCCGTGTCCCCAGACACCCCTGGGAGGGGCGGAAGCAGGCCCTAAGGGA
CTGGACTCCAGCTCCCTACAGTCCGGCACCTACTTCCCTGTGGCCTCAGAGGGCAGCGAG
CCGGCCCTACTGCACAGCTGGGCCTCAGCTGAGAAGCCCTACCTGAAGGAAAATCAGC
GCCACTGTGTACTTCCAGACCGTCAAGCACAAACATCAGAGACCTCGTCCGCCGCTGC
ATCACCCGGAAGTCCAGGTCTGGTCACTCTGATGGATGTGTTCA CGGATGTGGAGATC
TTCTGTGACATTCTAGAGGCAGCCAACAAGCGTGGGGTGTTCGTTTGTGTGCTCCTGGAC
CAGGGAGGTGTGAAGCTCTTCCAGGAGATGTGTGACAAAGTCCAGATCTCTGACAGTCAC
CTCAAGAACATTTCCATCCGGAGTGTGGAAGGAGAGATATACTGTGCCAAGTCAGGCAGG
AAATTCGCTGGCCAAATCCGGGAGAAGTTCATCATCTCGGACTGGAGATTTGTCCTGTCT
GGATCTTACAGCTTCACCTGGCTCTGCGGACACGTGCACCGGAACATCCTCTCCAAGTTC
ACAGGCCAGGCGGTGGAGCTGTTTGACGAGGAGTTCCGCCACCTCTACGCCTCCTCCAAG
CCTGTGATGGGCCTGAAGTCCCGCGGCTGGTCCGCCCGTCCGCCCGGAGCAGCCCCG
GCCAATGGCCGCCTTAGCAGCAGCAGTGGCTCCGCCAGTGACCGCACGTCTCCAACCCC
TTCAGCGGCCGCTCGGCAGGCAGCCACCCCGGTACCCGAAGTGTGTCCGCGTCTTCAGGG
CCCTGTAGCCCCGCGGCCCCACACCCGCCTCCACCGCCCCGGTTCCAGCCCCACCAAGGC
CCTTGGGGAGCCCCGAGTCCCCAGGCCACCTCTCCCCGCGGCCCCACGACGGCCCCGCC
GCCGCTGTCTACAGCAACCTGGGGGCCTACAGGCCACGCGGCTGCAGCTGGAGCAGCTG
GGCCTGGTGCAGGAGTCACTCCAACCTGGAGGCCCTTCTCTG CAGGCCTCCCCTCACTTC
TGAAGGTCCCATCCCCTGCTGCCCTCCGCAGGCCCAGGGCTGGGCACTCCCTGAGACCCA
AAGACCCACCTCAACGACGAGTGGCGTTGAGCCACTTCCCTTTGAAAAGACACTCAAAAT
CACTGCCATGGTTCAATGTTCCAGGCCCCAGGCCATCCACTTGCCGGCCCCCACCAGTT
CTTGGGTTCCCCGCTCTAGTTTGACCTGTGCAGCACATTCCAGAAGGTTCCAGGGAGGTT
GTGGGGCAGCTAGAGGACAAAATCATGAAAACAGAGTCCCTGTCTTCCAGAGATCATCCG
GGGCTTTAATATTAATGGCCCCCAAACTCCGTAAGAAGCAGGAAATGCAGCCCAAGTTT
TACAAATGGGTAAACAGAGGCACTGAGAGATAGATGGTAGTTTGGTACTTCTGGTTCCCA
GTGCCCAGGAATGGTCCAATCCCAAGAAATTACAGAAAGAAAGACTGAGGAGAAGGTGTG
GGAACATTCTGGATGTTTCGGGAGAGTTGGGGAAACTCCTCCTCTTAGGAAAGGCTAATA
CTAGGGTATCCTTGGGCCCAATGAATTAGGGGTGAGGCCCCAGAACCCGTTATCTATGAG
TTGTATGGGGGAGCCATCTGAAGCTGTAGCCACCAGGGATGCAGCTAGCTGAGGAGTTTG
GGGTGTTGGGTTGGACAAGGCAGGTTAGTAGACTCAGATTCTTGCTTCAAAGAGCCTTGG
GCTGGCCTGGAGGTCCCTGGAGTCTAGACTGGACCTAGGAGCTTGAGTTGTGAGGGGCCA
GGACTGGCCCCACTGCAGTGCCAGGCCAGTCTTGAGCAGCAGGGAGGGCTCAGCTGTCC
CCAGATCCAGGTGCCTCTGACCAGCCTGGTCACTCCTGAGGAATAAATGCTGAACCTCA
CAAGCCCCATCATTCATTTCTTCTCAATTCAAGTGCCCTCTTTGTTTCTGGGGTGGAA
CTAGGTCTGAGGGCAGCCTAGCTGAGTGCAAAGAAATATAGGATGCTTAGAAAGCAT
ACAGGAGGGGCCAGGCGTGGTGGCTCATGCCTGTAATCCAGAACTTTGGGATGCCAAGG
TGTTTGGATTACCTGAGATCAGGTGGATTACCTGGTCTCGAGACCAGCCTGACCAATATG

FIGURE 1 (CONT'D)

GTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGGCTGAGACAGGAGAATTGCTTGAA
CCAGGAAGCAGAGGTTGCAATGAGCTGAGATTGCATCACTGCACTCCAGCATGGGCAAC
AAAGCAAGACTCCGTCAC

Gene 97. >ENST00000325064 cDNA sequence

TGCGAGCAACAGATCCGGACGCCGCGAGCTGACCCGCTCTGCTGTTGGGCGATTTTTTTTT
TAATTGCAGAAAAATTTATTAAATTGGAAAATCTTGCCTTTTTCAATGGCGCTGGCCCCG
GGTCAGCGGGCGATTTTCTCTGCATCAAGATGGGCTTTGCCGTTTCCGTAGTGGGCACCA
GTGGTGGCCTGATTGTCTGCTCTTCTCCCGCATTTTTAAGGCCAGGAGCCGAGCGCTGCT
TGTAGGCGAATACCTTACAGAGCGGTTTGGCTTTTTAAATTACTGTTATTATTTTGGGCA
GAGAACAGTCGGTCTGGTGCACCCCGTCTCGCTGCAGAAGAGGCTGCGAGTCCGAGGTG
GGTCTCTCGGAAGGTGAAATTCCTTCTGGGGTGAGCGAGCCCCGGCCCCGCGCGAGTCC
AGCGGCCCCGCGTGTGTGCCCTCGCCCTGCCGAGCCGGGAAAATGGAGGCTGTGATTGA
GAAGGAATGCAGCGCGCTCGGAGGCCTCTTCCAGACCATCATCAGCGACATGAAGGGGAG
CTATCCAGTTTGGGAAGATTTTCATAAAACAAAGCAGGAAAGCTGCAGTCCCAGCTTCGGAC
AACAGTAGTAGCAGCAGCTGCCTTCTTGGACGCCTTTCAGAAAGTGGCTGACATGGCCAC
CAACACACGTGGTGGGACCAGGGAGATTGGATCTGCTCTCACCAGGATGTGCATGAGGCA
CAGAAGCATTGAAGCCAAGCTGAGGCAGTTTTTCGAGCGCTTTAATTGATTGTCTGATAAA
CCCCTTCAAGAACAGATGGAAGAATGGAAGAAAGTGGCCAACAGCTGGATAAAGACCA
CGCAAAAGAATATAAGAAAGCCCGCCAAGAGATAAAAAAGAAGTCCTCGGATACGCTGAA
ACTGCAGAAGAAAGCAAAAAAGGGAGAGGTGATATCCAGCCTCAGTTGGACAGTGCTCT
CCAAGATGTCAATGATAAGTATCTCTTATTGGAAGAAACAGAAAAGCAGGCTGTCCGGAA
GGCTTTGATTGAAGAACGTGGCCGATTCTGTACCTTCATCTCTATGCTGCGGCCAGTGAT
TGAAGAAGAAATCTCAATGCTAGGGGAAATAACCCACCTTCAGACCATCTCGGAAGATCT
AAAAAGCCTGACCATGGACCCCTCAAACTGCCCTCCTCAAGTGACAGGTGATTCTGGA
CTTGAAAGGTTCTGATTACAGCTGGTCTGATCAGACGCCACCTCTTCCCCCAGCACAC
CATGTCCAGAAAGTCAGTGTCTGCAGCAGCCTGAACAGTGTCAACAGCAGTGACTCCCG
GTCCAGCGGCTCCCACTCGCATTCCCCCAGCTCACATTACCGCTACCGCAGCTCCAACCT
GGCCCAGCAGGCTCCTGTGAGGCTGTCCAGCGTGTCTCCATGACTCAGGATTCATATC
CCAGGATGCCTTTCAGTCCAAGTCACCATCCCCATGCCGCCAGAGGCCCCCAACAGTT
GTCTAACGGGTTTTCTCACTATAGTTTATCAAGTGAGTCCACGTGGGGCCACGGGTGC
AGGCCTTTTCCCTCATTGCCTGCCTGCCTCCCGCTGCTCCCTCGGGTCACTCTGTCCA
CCTTCCAGACTACGCTCATTATTACACCATTTGGGCCCGGCATGTTCCCGTCATCTCAGAT
CCCTAGCTGGAAGGACTGGGCTAAGCCTGGGCCCTATGACCAGCCTCTGGTGAACACCCT
GCAGCGCCGCAAAGAGAAGCGAGAACCGGACCCCAACGGGGGAGGACCCACTACCGCCAG
CGGCCACCTGCAGCAGCTGAGGAGGCTCAGAGACCACGGAGCATGACTGTATCGGCTGC
CACAGGCCTGGTGAGGAGATGGAGGCTTGTGAGGAGCTGGCCCTGGCCCTGTCTCGGGG
CCTGCAGCTGGACACCCAGAGGAGCAGCCGGGACTCGCTTCAGTGCTCCAGCGGCTACAG
CACCCAGACAACCACCCCCTGTCTGCTCTGAGGACACCATCCCTTCCCAAGTTTCAGATTA
TGATTATTTCTCTGTAAGTGGTGACCAGGAGGCAGATCAGCAGGAGTTCGACAAGTCCTC
CACCATTCCAAGAAACAGCGACATCAGCCAGTCCTACCGACGGATGTTCCAAGCCAAGCG
TCCAGCCTCAACTGCTGGCCTCCCCACCAACCCCTGGGACCTGCTATGGTCACTCCAGGGGT
TGCAACTATCCGACGGACCCCTTCCACCAAGCCTTCTGTCCGCCGGGGAACCATTTGGAGC
TGGTCCCATCCCCATCAAGACACCCGTGATCCCTGTCAAGACCCCAACCGTCCCAGACCT
CCCAGGGGTGTTGCCAGCCCTCCAGATGGGCCAGAAGAGCGGGGGGAGCACAGCCCTGA
GTCGCCATCTGTGGGTGAGGGCCCCCAAGGTGTCAACAGCATGCCCTCCTCAATGTGGAG
CGGCCAAGCTTCCGTTAACCTCCACTTCCAGGCCCGAAGCCAGTATCCCTGAGGAGCA
CAGACAGGCAATTCCAGAAAGTGAAGCTGAAGACCAGGAACGGGAACCCCCAAGTGCCAC
TGTCTCCCCAGGCCAGATTCCAGAGAGTGACCCTGCAGACCTGAGCCCAAGGGATACTCC
ACAAGGAGAAGACATGCTGAACGCCATCCGAAGGGGCGTGAACTGAAGAAGACCACGAC
AAACGATCGCTCAGCCCTCGCTTTTCTTAGGTTCAAGAAATGCGCCGGTGGGGAATG
AACTGTTTCATTAATAAAACCTAATTTGTCTTGATCCATTCCACTCTATAATAAAACAAA
AGATTTTGTAGGCAACTCGGAATATAGCTCTTTTGAAAGTACTCGACACCTTTAGATAAG
AATTAACCAACCTATGTAACGACATAATCTTGATCTTTTAATTTGTAAATATTGACA
ATTTTCTTCTGCACATTTTAATCTTAGTTTCCCTTTTGATTTTTCTGAAGGTGCCAAAT

FIGURE 1 (CONT'D)

TCCATTTAACTTTTTTACAAGTCTTTGTAAAATTTTAAATGCATAAAGGGGGTTGGGGCA
 GGGGAACCACGAAGTAGTTAATTTTAGAAAAGGATTTACTATACTTCACTCTTCTTTTTT
 TTTCCCCACAAGCTTTTGTAGATGCATTGTAGTAGTCTAGCTTAGAAGCAAATGCAAGTT
 ATTTTAATGTACAACTAAATGGGTAAAGAGGTAAAATCTTCATTTAAATATACTATGTTC
 TGGATGAAAAGAGCAGGAGTAACAATTGATGAGCAATATTGAGAGTGAAGTAAATCTGGA
 AATGGTAGACTGTGTTGGGATTGGGGGGAGGGCCATGGGAGGGGTACATCGTCAACATAG
 CCGATCCTGTTACATTTAAGAGTAGCCTCGTAGGTTGAATTTCTTCTGGTAGCTTCATGG
 TAAATGCATCCGAATAAGCCATACTGGATTGCAGTGTGTTGTTTCTGTAGGGTGTTTAAGG
 ACTTGACTTCCTTTCTCCCATGATTCTCTGGACTGCACACAGCACCCACAACCAGCCCC
 ATGCATGCTGCTGCCTCTGGGCAGTCGTAGAATCTCCCACTTCAGTTTTCTCGTTGATTGT
 ACTCACCTTTATGGAATCCAAATACATCCAAAAGGGTAAGGCAGTTTTAAAAATGTGAAA
 ACATTTAAAAATGATAATAGCAGGGAATTCTTAGATTATAGTAAATGCCTTTTACTTAAC
 TGTGCCCAGCAGGCTGGGTGCGTTAAAAAGCCCAAGTATTTTGAAAAAACTCGAACAGAT
 TTGACAAGGGTAGCCAGCTTGGAGTCTAGCAACTTGCCAATGTGTTTACCAATCTGGGGG
 CTTGTTTTTTCTTTTCTTTCAAATAAATGGCAGTTAACTGGCTTTACAGTAAACATTG
 AAGAGAGGAGGATTTGTTTATTGTCACTGGGAATCTGACCACTATACTGTCTTTTTTTTG
 TATTCTGGGTAAATGTTTTTTTGAAAAGATTGTCTTTTCTAAGTGGAAGTTAAATTTGT
 TATACTGCCCATCCCTAAAGCCAAACAGAGATTTGTAGATTTAAAGGGATCACATTTGAA
 GACAATAGTGTTTAAGAAAGCAAGCAAGTCCCTTAGCAGTCAGGTCATAACAGGGCACAT
 TTCTGACCGAACCTCTCAAGGCAGAGGAGGAGTTTGGTGGGTTTCATACACCCTGCAGA
 TTCCTGTTGGCTCTAACCTCAATTACCTAATCTTATGCTTTAACACATAACTGCATTGG
 ATGTGAGAGTAACGTACCGTATGGTCATTGTTCTATATATTAAACATTGAACACTGCTGCG
 ATTGCTCAAGGACATTTTATGTTACGGCTTTAAAGCAAAGGCATGATTATTAGAAACTAT
 TTAAGCTTTTTTTCTTTGAAAAACAAGCTCCTTTTACAGAATATAAAACAACAGTAGTGCCT
 GTGGTTTAGCCCAACCAATCTTGATGACTAAAAGTAGCTGATGCATTGTGCATATGATGCT
 TGAGATGGTTTTTTGCAAAAGCAGAAATCGCTGCAAGGTAATCACAATAGATAAAAAGTGGT
 ATTTTAAACCTTTGAAATAAATGGATGTAACCTGTACCTTGGTAAGCTTTTCACTTGTTT
 AGTTTTTAAACGTTAGTATAATCTGAATAAATAAAATGTTGCCAAATTCATGTAGAAAAG
 AATGTGACAACACACCTTGGGTAGTTCTGCTTGTGTTTTTGCATATTGTAAAAGCAGTGT
 CACAGCTAAAAAGAAAGAAATCGTTTCTAACAGTAAATTATTGTGCTTTAGTTGCTAGTT
 TGTACTGAGAGTTGACCTCTCCCTGTGCAGTTTTTTGTTCTAAACCTTGATAAAATAACAA
 TTGTGTAATGTGTCTCCCTCCTACATTGTAACAATTGCTTCAGCCTACGTTATAAATAAA
 GAACCACTAGATT

Gene 98. >ENST00000319286 cDNA sequence

TTTCTGCCTTCCGGGTTTGTAGAGTTTAGGACCCCTGGGTTGGTGGGGTCAAGGGAGAGGG
 GGTACCTTCCCTCCCGGACCGCTGGGGGTGCAGGGCGCCTTGGGTGTAGCACCCAGAACAG
 GTTTCTGATCTCTAACTTGGCTGTGATCATTGTGATGGAGCAAGAAAAAACTGTTGGT
 CTCAGATTCTAACAGCTTTATGGAGAGGGAGAGTTTGAAAAGCCCTTTACAGGAGATAC
 AAGTATGAATAATTTGGAACTGTTTACCACAATAATTCTAAGGCAGATAAACTTAAAGA
 GAAACCTTCAGAATGGTCTAAAAGACATAGACCACAACATTATAAGCATGAGGATGCAAA
 AGAAATGCCACTGACATGGGTTCAAGATGAGATTTGGTGTGATGATTCTATGAGAGTGA
 TGGCAAGTCAGAGAATTGGGGAAATTTTATAGCTAAAGAGGAGGAAAAACCCAATCACCA
 GGAATGGGACTCAGGAGAACATACCAATGCCTGTGTCCAGCAGAATTCTATCTTTGTAGA
 CAGACCCTATAAATGTTCCGAATGTTGGAAAAGCTTCAGTAATAGTTCTCATTTGCGTAC
 TCACCAGAGGACCCACTCAGGAGAAAAGCCTTATAAATGCTCTGAGTGTGCAAAATGTTT
 TTGTAACAGTTCTCACCTGATTGAGCATCTAAGAATGCACACAGGAGAGAAGCCCTACCA
 GTGTGGTGAATGTGGGAAAAGCTTCAGCAATACCTCCCATCTTATTATCCATGAGAGAAC
 TCACACGGGAGAGAAACCTACAAATGTCCCGAGTGTGGGAAGAGATTGAGCAGCAGCTC
 TCACCTTATTGAGCATCACAGATCACATACAGGTGAAAAACCATATGAATGTTCTGTCTG
 CGGAAAAGGCTTCAGTCACAGCTATGTCCTAATAGAACATCAGAGGACTCACTGGAGA
 AAAACCTTATAAGTGCCCTGATTGTGGGAAGAGTTTTAGTCAGAGTTCCAGCCTCATTCG
 CCACCAGCGGACACACAGGTGAGAAGCCCTACAAATGTCTTGAGTGTGAAAAAGCTT
 TGGTTGTAATCTACTCTAATAAAACATCAGAGAATACATACAGGAGAAAAGCCTTATCA
 ATGTCCAGAATGTGGGAAGAATTTAGTCGTAGTTCAAACCTTATTACACACCAGAAAAAT

FIGURE 1 (CONT'D)

GCACACAGGAGAGAAATCCTATGAAAGTTCTGAATATGAGGAAAGTTTGGGTGAGAACTG
CAATGTGATAGAAGAATGCAGAATCCAGTTAGGAGAGAAACCATATAGATGTTGTGAATG
TGGGAAGAGTTTTTGGCCTTAGCTCCCATCTCATTAGACATCAGAGAACACATACAGGAGA
AAAACCTTACAGATGTTCTGAGTGCTGGAAAACCTTCAGTCAGAGTTCCACCCTGGTGAT
TCACCAAAGGACACATACAGGAGAGAAACCTTATAAATGTCTGATTGTGGTGAAAGCTT
CAGTCAGAGCTTTAACCTTATCAGGCACCGGAGGACCCACATAGGGGAAAAACCTTACAA
ATGTACCAGCTGTGAGAAATGCTTCAGCAGAAGTGCCTACCTCAGTCAGCATCGGAAAAT
TCACGTAGAAAAGCCTTTTGAGTCTCCCGACGTTGGGGATTTTCTCATGAATGGACTTG
GAAAACTGTTTCAGGGGAAATGCCCTTCATCTCTTCATTTTCCGTCTCAAATTCATCTTC
CTGAGTCCCAAAGCCTGGTTGGTGATGGTTTTTTCTTCCTTGTTGGACCATGACAATTTA
GGTATTCTGTGATTGTTGTGCTATAAAGTTTCTTTGATGTGTTTGTCAAAACATTTGGAA
AAAGTCAACCTCCAGTTTAAAGGATGGGAAGACCCCAATCACCAGGTTATTGGATCTGT
CCAGTGAGAGATTATCCACCAAGGATGAAGAAAGGAGGACTTTTAAAAATTTAAGGTAA
GATAGTAATAGCTTCAAAAGAACATACAGAGTAATCCTGAGAGTAAGCAAAGGAACCA
TGAGAACC GAAGCTAGAATTGCTATTGAATTACTTTATTTTCTCTTCCCTTATTGGGTAG
AGATACATCATTACTGGCCTCAGGGGTTTACCCAAAGAAAGGGTATTTTTTGGCAAAATAA
TGTGATTTCTCGCTATTTTTGTTGGGGGCTTAAGATTTTTTTTTTTTCAAATGCATTTTTTA
GTCACTAAAAATTAAGTGTCTGCTACCATCTAGAACTATACTGTCCAGTACCATAGCCTCTA
GCCGTATGTAGCTATTTGTATTAAGATTAATTGAAATTTTAAATCCAGTTCCCTCAGTCAC
ACTAGCCACTTTCTAAGTGCTCAGTAGCTCTGTGTGACCAGCGGCTACTGTATTGGATAT
TATAGAAGGTTCTTTTCAATCAAGATCATCATTCTTGACAGACCCATAAATATTTCCCTATA
AAGACTGTAGAAGTGTGTTCTGGAGGGTTTGCTCTCCAAAAGAATTGTAATATAGAGTA
GAATTGGGATAGAGTATTGAAGACACTGGGTTTAGACATTGGATATTTTAATGATTGTGT
GTTCTAATTCATGTGCTGCCAACTGAGTTATCTAGTGATATGACCTCACTGTCTTGACCA
AAGCCAGAATAGAAGGCAGGATTCTGAATTCATCTTAAATTTGCAATGAAGAGCCTT
TTCCCTAAATATCCCATATGTAATTCCTGGTCAGCTCAAGAACTGGGTTCTTTTTCTA
ATAATTAACCTCACTAAATCTGAGCCAGTGTCGAAGGACAGTTTGTCAATTAAGGAGTACTG
AGACTTCTTAGCTTTGGTACTGACAGTTTCTTTTGCCTCTTGACATAATTGGTATATGG
ATCTGATAACTGAGGTCCCATCTTCCCTACTCATTCCCTATGGGAATGATGCTTTGGAAAT
TATTAGATATATCCTATTCCCTTCCCTCCCATTTTTTTTCTGCTAGTGCAAAGGTAGATG
AGTAGGAAGATTAGGACTCCTGAGTTGCCCATGATTTTCATCTAATTTTTGGATTGAGAAAT
GTATTTTATGAATAATATGCAGAGATGCATATTAGGAATGTGAAGCCAGAATGGGTGAGT
TGTAGCTGCTGCAAAGTTCTGTAGCTGATGGTCATTTAATTGCATGGGGGTTATTTTATC
TTTCATGATTGTGGTGACCTGATGCTGGCGGGGTATTTGTGTGTTTTTGTATTGTTATT
TGATTACAAAATAAAGCAAAAACCTAAC

Gene 99. >ENST00000265896 cDNA sequence

TACGCCCTATACAACCTTGGCTTTCACATACTTTTACACTAACTTTATATGATTTTTAAAAA
CTGGTCTGATCGGACTTCTCGTCTCGGGACACTGTTTACTGGAGTCTGGCCGGCTCTCCG
TGCTCCTCTTGGTACCTCATTTTGGGGAGAACCTTAAACCCACTCGAGCAGATAATCTCC
GCCTTGACCGGTGCCACCAAAGAAGCCTTGGAACCATGTGGACTTTTCTGGGCATTGCCA
CTTTTCACTATTTTTATAAGAAGTTCTGGGGACTTCATCACTTTGGCCAACAGGGAGGTCC
TGTTGTGCGTGCTGGTGTTTCTCTCGCTGGGCCTGGTGCTCTCCTACCGCTGTGCGCCACC
GAAACGGGGGTCTCCTCGGGCGCCAGCAGAGCGGCTCCAGTTTCGCCCTCTTCTCGGATA
TTCTCTCAGGCCTGCCTTTTCAATTGGCTTCTTCTGGGCCAAATCCCCCCTGAATCAGAAA
ATAAGGAGCAGCTCGAGGCCAGGAGGCGCAGAAAAGGAACCAATATTTTCAAGAAACAAGCT
TAATAGGAACAGCTGCCTGTACATCAACATCTTCTCAGAATGACCCAGAAGTTATCATCG
TGGGAGCTGGCGTGCTTGGCTCTGCTTTGGCAGCTGTGCTTTCCAGAGATGGAAGAAAGG
TGACAGTCATTGAGAGAGACTTAAAGAGCCTGACAGAATAGTTGGAGAATTCCTGCAGC
CGGGTGGTTATCATGTTCTCAAAGACCTTGGTCTTGGAGATACAGTGGAAGGTCTTGATG
CCCAGGTTGTAAATGGTTACATGATTGATGATCAGGAAAGCAAATCAGAGGTTTCAATTTC
CTTACCCTCTGTGAGAAAACAATCAAGTGCAGAGTGGAAGAGCTTTCCATCACGGAAGAT
TCATCATGAGTCTCCGGAAGCAGCTATGGCAGAGCCCAATGCAAAGTTTATTGAAGGTG
TTGTGTTACAGTTATTAGAGGAAGATGATGTTGTGATGGGGCAGTACAAGGATAAAGAGA
CTGGAGATATCAAGGAACCTCATGCTCCACTGACTGTTGTTGCAGATGGGCTTTTCTCCA

FIGURE 1 (CONT'D)

AGTTCAGGAAAAGCCTGGTCTCCAATAAAGTTTCTGTATCATCTCATTTTGTGGCTTTC
TTATGAAGAATGCACCACAGTTTAAAGCAAATCATGCTGAACTTATTTTAGCTAACCCGA
GTCCAGTTCTCATCTACCAGATTTTATCCAGTGAAACTCGAGTACTTGTTGACATTAGAG
GAGAAATGCCAAGGAATTTAAGAGAATACATGGTTGAAAAAATTTACCCACAAATACCTG
ATCACCTGAAAGAACCATTCTTAGAAGCCACTGACAATTCTCATCTGAGGTCCATGCCAG
CAAGCTTCCTTCCTCCTTCATCAGTGAAGAAACGAGGTGTTCTTCTTTTGGGAGACGCAT
ATAATATGAGGCATCCACTTACTGGTGGAGGAATGACTGTTGCTTTTAAAGATATAAAAC
TATGGAGAAAAGTCTAAAGGGTATCCCTGACCTTTATGATGATGCAGCTATTTTCGAGG
CCAAAAATCATTTTACTGGGCAAGAAAAACATCTCATTCTTTGTGCTGAATATCCTTG
CTCAGGCTCTTTATGAATTATTTTCTGCCACAGATGATTCCCTGCATCAACTAAGAAAAG
CCTGTTTTCTTTATTTCAAACCTTGGTGGCGAATGTGTTGCGGGTCTGTTGGGCTGCTTT
CTGTATTGTCTCCTAACCTCTAGTTTAAATTGGACACTTCTTTGCTGTTGCAATCTATG
CCGTGTATTTTTGCTTTAAGTCAGAACCTTGGATTACAAAACCTCGAGCCCTTCTCAGTA
GTGGTGCTGTATTGTACAAAGCGTGTCTGTAAATATTTCTCTAATTTACTCAGAAATGA
AGTATATGGTTTCATTAAGCTTAAAGGGGAACCATTTGTGAATGAATATTTGGAACCTTACC
AAGTCCTAAGAGACTTTTGAAGAGGATATATATAGCATAGTACCATAACCACTTATAAAG
TGGAAGACTCTTGGACCAAGATTTGGATTAAATTTGTTTTTGAAGTTTTTGTATATAAATA
TGTAATACATGCTTTAATTTGCAATTTAAATGAAGGGGTAAATAAGTTAGACATTTA
AAAGAAATGATTGTTACCATAAATTAGTGCTAATGCTGAGGAGAACTACAGTTTTTCTTT
TGAATTTAGTATTTGAGATGAGTTGTTGGGACATGCAAATAAAATGAAGAATGA

Gene 100. >ENST00000318410 cDNA sequence

AGGGGCGGAAGTCGGGGTCTGACCCGCTCCAGGTCCGGGACTGCGGATAGAAGAGGACCG
CCGCCTTGAGGGAGGGGTGGAACTGGGTGCCGGCTCCGCGCGCGACCTCCGGCCCTGCG
CGTGCGCCGTGGCGCGGCCCGGCTGACAGGTTCTTTAATGGAGGAGCCAATCTCTCTGCA
CACCTGGTTTTCATCTAATAATATACAGACACCAGCTCTGAGGCCAGTTAATCATCCCCAG
TGTCCAGGCACAGAGTAGTCCGTCCGCCTCACAATGTTGGACTTTCTAGCCGAGAACAAAC
CTCTGTGGCCAAGCAATCCTAAGGATTGTTTCTGTGGTAATGCCATCATTGCTGAACTT
TTGAGACTCTCTGAGTTTATTCTGTCTGTGTTGAGTTAAAGACAGAGCTGATCAACAG
AAATATGGAGATATCATATTTGATTTTCTGCTATTTTAAAGGTCCAGAATTATGGGAAAGC
AACTGGATGCTAAGCCAGAGCTACAGGATTTAGATGAAGAATTTCTGTAAAACAACATA
GAAATTGTGACCAGATTTTATTTAGCATTTCAAAGTGTACATAAATATATTGTAGACTTA
AACAGATATCTAGATGATCTCAATGAAGGGGTTTATATTAGCAAAACCTTAGAACTGTG
CTTCTCAATGAAGATGGAAAAACAATTCTATGTGAAGCACTGTACTTATATGGAGTTATG
CTACTGGTCATTGACCAAAAGATTGAAGGAGAAGTCAGAGAGAGGATGCTGGTTTCTTAC
TACCGATACAGTGCTGCTCGATCTTCTGCTGATTCAAATATGGACGATATTTGTAAGCTG
CTTCGAAGTACAGGTTATTCTAGCCAACAGGTGCCAAAAGACCATCCAACCTATCCCGAG
AGCTATTTCCAGAGAGTGCCTATCAACGAATCCTTCATCAGTATGGTCATTGGTCGACTG
AGATCTGATGATATTTACAACAGGTCTCAGCGTATCCTTTGCCGGAGCATCGCAGCACA
GCCCTGGCAAACCAAGCTGCCATGCTGTACGTGATTCTCTACTTTGAGCCTTCCATCCTT
CACACCCATCAAGCAAAAATGAGAGAGATAGTGGATAAATACTTTCCAGATAATTGGGCA
AGTATTAGTATTTACATGGGGATCACAGTTAATCTAGTAGATGCTTGGGAACCTTACAAA
GCTGCAAAAAGTCTTTAAATAATACCCTGGACCTTTCAAATGTGAGAGAACAGGCAAGC
AGATATGCTACTGTGCTGAGTGAAGAGTGCATGCTCAAGTGCAGCAATTTCTAAAAGAAGGT
TATTTAAGGGAGGAGATGGTTCTGGACAATATCCCAAAGCTTCTGAACTGCCTGAGAGAC
TGCAATGTTGCCATCCGATGGCTGATGCTTCATACAGCAGACTCAGCCTGTGACCCAAAC
AACAAACGCCTTCGTCAAATCAAGGACCAGATTCTAACAGACTCTCGGTACAATCCAGG
ATCCTCTTCCAGCTGCTGTAGATACTGCACAATTTGAGTTTATACTCAAAGAGATGTTT
AAGCAAATGCTTTAGAAAAGCAAACCAAATGGGAGCATTACAAGAAAGAGGGTTCCGAG
CGGATGACTGAGCTTGCTGATGTCTTTTCAAGAGTGAAACCCCTAACAGAGTGGAGAAA
AATGAAAACCTTCAAGCTTGGTTTCAAGAGATCTCAAAACAAATATTGTCTTTAAATTAT
GATGATTCTACTGCTGCGGGCAGAAAACTGTACAACCTGATACAAGCTTTGGAAGAGGTT
CAAGAATTCACCAAGTTGGAATCCAATCTGCAAGTATGTCAGTTTCTTGCCGATACTCGA
AAGTTTCTTCATCAAATGATCAGAACCATTAACATTAAAGAGGAGGTTCTGATCACAATG
CAGATCGTTGGGGACCTTTCTTTGCTTGGCAGTTGATTGACAGTTTCAATCCATCATG

FIGURE 1 (CONT'D)

CAAGAAAGCATAAGGGTAAATCCATCCATGGTTACTAACTCAGAGCTACCTTCCTAAAG
 CTTGCCCTCTGCCCTCGATCTGCCCCCTTCTTCGTATTAATCAGGCAAATAGCCCCGACCTG
 CTCAGCGTGTCAAGTACTATTCTGGAGAGTTGGTATCCTATGTGAGAAAAGTTTTGCAG
 ATCATCCCAGAAAGCATGTTTACATCTCTTCTAAAGATCATAAAGCTTCAGACCCACGAC
 ATTATTGAAGTGCCTACCCGCTGGACAAAGACAAGCTGAGGGACTATGCTCAGCTAGGC
 CCACGATACGAGGTTGCCAAGCTTACTCATGCTATTTCCATTTTTTACTGAAGGCATCTTA
 ATGATGAAAACGACTTTGGTTGGCATCATCAAGGTGGATCCAAAGCAGTTGCTGGAAGAT
 GGAATAAGGAAAGAGCTTGTGAAGCGCTTGCCTTTGCCCTGCATAGGGGACTGATATTC
 AACCTCGAGCCAAGCCAAGTGAATTGATGCCCAAGCTGAAAGAGTTGGGAGCGACCATG
 GATGGATTCCATCGTTCTTTTGAATACATACAGGACTATGTCAACATTTATGGTCTGAAG
 ATTTGGCAGGAAGAAGTATCTCGTATCATAAATTACAACGTGGAGCAAGAGTGAATAAC
 TTTCTAAGAACGAAGATTCAAGATTGGCAAAGCATGTACCAGTCCACTCATATTTCAATA
 CCCAAGTTTACCCCTGTGGATGAGTCTGTAAACGTTTATTGGTCTGACTCTGCAGAGAAATC
 CTGCGGATCACAGACCCAAAAATGACATGTACATAGACCAGCTGAACACTTGGTATGAT
 ATGAAAACCTCATCAGGAAGTGACCAGCAGCCGCTCTTCTCAGAAATCAGACCACCTTG
 GGAACCTTTGGTCTAAATGGCTTAGACAGGCTTCTGTGCTTTATGATTGTAAAAGAGTTA
 CAGAATTTCTCAGTATGTTTCAGAAAATTATCCTGAGAGACAGAAGTGTTCAGGACACT
 TTAAAAACCTCATGAATGCTGTGAGTCCCTTAAAAAGTATTGTGCAAAATCAAATAAA
 ATTTATTTTTTCGCCATTGCCAAAACACAGAAGATTTGGACTGCGTATCTCGAGGCTATA
 ATGAAGGTTGGGCAGATGCAGATTCTGAGACAACAGATTGCCAATGAATTAAATTATTCT
 TGTGCGTTTGATTCTAAACATCTGGCAGCTGCTCTGGAGAATCTCAATAAGGCTCTCCTA
 GCAGACATTGAAGCCCACTATCAGGACCCTTCACTTCCTTACCCCAAAGAAGATAACACA
 CTTTTTATATGAAATCACAGCCTATCTGGAGGCAGCTGGCATTCAACCCCACTGAATAAG
 ATATACATAACAACAAAGCGCTTACCCTATTTTCCAATTGTAAACTTTCTATTTTTGATC
 GCTCAGTTGCCAAAACCTTCAATACAACAAAAATCTGGGAATGGTCTGCCGAAAACCGACC
 GACCCGGTTGATTGGCCACCCTTGTCTCTGGGACTGCTCACTCTGCTGAAGCAGTTCAT
 TCCCCGTACACCGAGCAGTTCTCTGGCGCTGATTGGCCAGTTTATCTGCTCCACGGTGGAG
 CAGTGTACAAGCCAGAAGATACCTGAAATTCCTGCAGATGTTGTGGGTGCCCTTCTGTTT
 CTGGAGGATTATGTTCCGTACACAAAGCTACCCAGGAGGGTTGCTGAAGCACATGTGCCT
 AATTTTATTTTTGATGAGTTTCAAGACAGTGCTGTAACTGTTTTTCTTCTTCAATGG
 AAGGATTGTCCTTAGATCTTCCACCACATCAAAATGAATTTGAAGATGAAAAGAACTCA
 GTTGCTCATACAACCTGCATTTTTTCTGTCTATTATGGGAAACATCAGACGTTCTGAGTAA
 GATATATCTCATGGCATTAGTTAATATAACTGATATTGTTTAAATCATGGTATTACATGC
 AATTTATATCAGATAAAAGCAGAACACATTTTTGTACTGCCTCTCTTAAATGCTGAATGT
 AACTGTTATGTATAAATCCATTTAGTTTTATGTTCTAAAGAACTATTTGTGCAACTCCAG
 ATTTTCAGTAAAATAGTATTACTAGT

Gene 101. >ENST00000329771 cDNA sequence

GACGGGCTCACCACGCAGCAGCTCTTCGCCAGAGCCGACAGCCTCACCTACAACGAGTTC
 CTGATTCTCCAGGATTCATAGACTTCATAGCTGATGAGGCGGACCTCACCTCAGCCCTT
 ACCTGGAAGATCACGCTGAAGACGCCGCTGATCTCCTCCTCCATGGACACTGTGACAGAG
 GGCAACATGGCCATCACGATGGCTCTGGTGGGAGGTATTGGTTTTATTACACCAACTGC
 ACCCCAGAGTTCCAGGCCAAGGAGGTGCGGAAGGTCAAGAAGTTTGAAATGAGCTTCATC
 ACGGACCCCATGGTGTGAGCCCCCTCGCACCTGTGGGTGATGTGCTGGAGGCCACGATG
 CGGCATGGCTTCTCTGGTATCCCATCACTGAGACAGGCACCATGGGCAGCAAGCCGGTG
 GGCATCGTCACTTCCCAGACATCGACTTTCTTGCTGAGAAGGACACACCACCTCCTC
 AGTGAGGTGATGATGCCAAGGATTGAGCTGGTGGTGGCTCCAGCAGGAGTGATGTTGAAA
 GAGGCAAATGAGATCCTGCAGCAAAGCAAGAAAGTGAAGCTGCCTATCGTCAATGACGAT
 GATGAGCTGGTGGCCATCATTGCCCTCACCGACCTGAAGAACCGAGACTACCTGTGGCC
 TCCAAGGATTCCCATGAGCAGCTGCTGTGTGGGGCAGCTGTGGGCACCTGTGAGGATGAC
 AAATACCGCCTGGACCTGCTCACCCAGGCGGGTGTGACGTGATAGTCTTGGACTTGTCC
 GAAGGGAACTTGCTGTATCAACTGATGGTGTATTACGTCAAACAGAAGTACTCCACCTC
 CAGGTGATTGGGGGGAACGTGGTGACAGCAGCCAGGCCAAGAACCTGATTGATGCTGGT
 GTGGACGGGCTGTGTGTGGGCATAGGCTGCGGCTCCCTCTGCATCACCCAGGAAGTGATG
 GCATGTGGTTGCCCCCAGGGCACTGTGTACAAGGTGGCTGAGTATGCCCCGCACTTTGGT

FIGURE 1 (CONT'D)

GTGCCCATCATAGCCGATGGTGGCATC

Gene 102. >ENST00000287387 cDNA sequence

CCTCTCCCCCGGGCTCCGCCCACCCACGCCGGGAACCCACGCCGGGCCACTACAAGCCC
GCCCTTTTCTACGTCTGGTCCAGTCGGTCTTCTCCGGCCCGGGCCCTGGCCAGCTAGC
CGGCCATGGAAGGTAATGGCCCCGCTGCTGTCCACTACCAGCCGGCCAGCCCCCGCGGG
ACGCCTGCGTCTACAGCAGCTGCTACTGTGAAGAAAATATTTGGAAGCTCTGTGAATACA
TCAAAAACCATGACCAGTATCCTTTAGAAGAATGTTATGCTGTCTTCATATCTAATGAGA
GGAAGATGATACCTATCTGGAACAACAGGCGAGACCTGGAGATGGACCTGTGATCTGGG
ATTACCATGTTGTTTTGCTTCATGTTTCAAGTGGAGGACAGAACTTCATTTATGATCTCG
ATACTGTCTTGCCATTTCCCTGCCTCTTTGACACTTATGTAGAAGATGCCTTTAAGTCTG
ATGATGACATTACCCACAGTTTAGGAGGAAATTTAGAGTGATCCGTGCAGATTATATT
TGAAGAACTTTGCTTCTGACCGATCTCACATGAAAGACTCCAGTGGGAATTGGAGAGAGC
CTCCGCCGCCATATCCCTGCATTGAGACTGGAGATTCAAAATGAACCTGAACGATTTCA
TCAGTATGGATCCCAAGGTAGGATGGGGCGCCGTCTACACACTATCCGAATTTACACATC
GGTTTGGCAGTAAAACTGCTGAACTTGGTCTCAAGATGTGGAAGTGTGGAGAAATTCTA
GGACATGAACAAGCTATCCTTTATCGAGGACAGCAACATTATGGTACAGTTGGCTTGG
AATTATGTCTTTCTCTTTTAATTTGATTGAGTGGAAATCTGAGTGAATACAAATATAAAT
GAACAAATAAAAACTTTTGTGTTTGAATGTCAAATTTGAACTTGATAAAGTGCCTACTT
GCTAAGATATTTCTGTGGCTCATGCGTTACAACACGAGGACTTAAGCCAGTAATCGTTTT
TGTTT CAGATAGAGGTGTGGAGGTAGAGCCAGCCCCTCATGTCTGTTTTGGATGTTTTGTG
TCTCTCCAGCTACATTGTAAGTTTCTTGAGGGCAGGGCCATGGCCATTGCTCTGTGAAT
CTCAAATGCCCATAAAAGGTGCCCATAAAATGTTTTCTTGAACTTTGAATGTGCTGTTG
TCTGGAAAGGGGTAATATTGTGAGCTGAATCAGCAATAAGTATTAGTCTTTTTGGACTAT
GGTATTGTTAAAAAGACTGCAGCCCTCTCAGACTTGAGCGTTAATTGGCTTATTTATTTA
TGGCTTTAAATAAAATCGATTTAACGTT

Gene 103. >ENST00000309019 cDNA sequence

ATGACTCTTAACGAGCAGCTGCCTTCAAGCATCTGTTTAACAAAGCACATCTTGCACCG
CCCTTAATCCATTCAACCCTGAGTGGACACAGCACATGTTTCAGAGAGCACAGGGTTGGA
GGTAAGGTACAGATCAACAGGATCCCAAGGCAGAAGAATTTTTCTTAGTACAGAACAAA
ATGAAAAGTCTCCCATGTCTACTTCTTCTTACACAGACACGGCAACCATCCGATTTCTCA
ATCTTTTCCCCACCTTTTCTGCCTTTCTATTCCACAAAGCCGCCATTGTATCCTGGCCC
GTTCTCAATGAGCTGTTGGGTACACCTCCAGACGGGGTGGTGGCCGGGCAGAGGGGCTC
CTCACTTCCCAGTAG

Gene 104. >ENST00000287394 cDNA sequence

ATGGTGGTTTCTCCGCAGCAGCTTGGAGCTGCACAACCACTCCGCGGCCTCGGCCACGGGC
TCCTTGGACCTGTCCAGTGACTTCCTCAGTCTGGAGCACATCGGCCGGAGGCGGCTCCGC
TCGGCCGGCGCGGCGCAGAAGAAACCCGCGGCGACACAGCCAAAGCGGGCGATGGGTCA
TCAGTTAAGGAAGTTGAAACCTACCACCGGACACGTGCTTTAAGATCTTTGAGAAAAGAT
GCACAGAATTCTT CAGATTCTAGTTTTGAGAAGAATGTGGAATAACGGAGCAACTTGCT
AATGGCAGGCATTTTACAAGGCAGTTGGCCAGACAGCAGGCTGATAAAAAAAGAAGAG
CACAGAGAAGACAAAGTGATTCCAGTTACTCGGTCAATTGAGGGCTAGAAAATCGTTCAA
AGTACAGAACTTACATGAAGATAATGGTGATGTTGAAGTGCCTCGAAGTTGTAGGATT
AGAAGTCGTTATAGTGGTGTAAC CAGTCCATGCTGTTTGACAACTTATAACTAACACT
GCTGAAGCTGTACTTCAAAAAATGGATGACATGAAGAAGATGCGTAGACAGCGAATGAGA
GAACTTGAAGACTTGGGAGTGTTTAATGAAA CAGAAGAAAGCAATCTTAATATGTACACA
AGAGGAAAA CAGAAAGATATTCAAAGAACTGATGAAGAAACAACTGATAATCAAGAAGGC
AGTGTGGAGTCATCTGAAGAGGGTGAAGACCAAGAACATGAAGATGATGGTGAAGATGAA
GATGATGAAGATGATGATGATGATGACGATGATGATGATGATGATGATGATGAAGATGAT
GAAGATGAAGAAGATGGAGAAGAAGAGAATCAGAAGCGATATTATCTTAGACAGAGAAAA
GCTACTGTTTACTATCAGGCTCCATTGGAAAAACCTCGTCACCAGAGAAAGCCCAACATA
TTTTATAGTGGCCAGCTTCTCCTGCAAGACCAAGATACCGATTATCTTCCGCAGGACCA
AGAAGTCCTTACTGTAAACGAATGAA CAGGCGAAGGCATGCAATCCACAGTAGTGACTCG
ACTTCATCTTCTCCTCTGAAGATGAACAGCACTTTGAGAGGCGGAGGAAAAGGAGTCGT
AATAGGGCTATCAATAGGTGCCTCCCACTAAATTTTTCGAAAGATGAATTAAGGCATT

FIGURE 1 (CONT'D)

TATAAAGATCGAATGAAAATTGGAGCAAGCCTTGCCGATGTTGATCCAATGCAACTAGAT
TCTTCAGTACGATTTGATAGTGTGGTGGCCTGTCTAATCATATAGCAGCTCTAAAAGAG
ATGGTGGTGTTCATTACTTTATCAGAAGTCTTTGAAAAATTTAAAATTCAACCCCCA
AGAGGTTGTTTGTATGGGCCACTGGAAGTGGAAAGACTCTGGTTGCCAGAGCACTT
GCCAATGAGTGCAGTCAAGGGGATAAAAAGAGTAGCATTTCATGAGGAAAGGTGCTGAT
TGTCTAAGTAAATGGGTAGGAGAATCTGAAAGACAGCTACGATTGCTGTTTGATCAGGCC
TATCAGATGCGCCATCAATTATTTTTTTTGGACGAAATTGATGGTCTGGCTCCAGTACGG
TCAAGCAGGCAAGATCAGATTCACAGTTCTATTGTTTCCACCCTGCTAGCTCTTATGGAT
GGATTGGACAGCAGAGGGGAAATTGTGGTCAATTGGTGCTACGAACAGGCTAGATTCTATA
GATCCTGCTTTACGAAGGCCTGGTCGCTTTGATAGAGAATTCCTCTTTAGCCTGCCTGAT
AAAGAGGCTCGAAAAGAGATTCTAAAGATTCAACCAGGGATTGGAATCCCAAACCACTG
GACACATTTTTTGAAGAGCTAGCAGAAAACGTGTTGGATACTGTGGAGCAGATATTAAA
TCAATATGTGCTGAAGCTGCTTTATGTGCTTTACGACGACGCTACCCACAGATCTATACC
ACTAGTGAGAACTGCAGTTGGATCTCTCTTCAATTAATATCTCAGCTAAGGATTTTCGAG
GTAGCTATGCAAAAGATGATAC CAGCCTCCCAAAGAGCTGTGACATCACTGGGCAGGCA
CTGTC CACCGTTGTGAAACCACTCCTGCAAAACACTGTTGACAAGATTTTAGAAGCCCTG
CAGAGAGTATTTCCACATGCAGAATTCAGAACAAATAAAAATTAGACTCAGATATTTCT
TGTCCTCTGCTAGAAAGTGACTTGGCTTACAGTGATGATGATGTTCCATCAGTTTATGAA
AATGGACTTTCTCAGAAATCTTCTCATAGGCAAAAGACAATTTTAATTTTCTTCATTTG
AATAGAAATGCTTGTACCAACCTATGTCTTTTCGACCAAGAATATTGATAGTAGGAGAA
CCAGGATTTGGGCAAGGTTCTCACTTGGCACCAGCTGTCATTTCATGCTTTGAAAAGTTT
ACTGTATATACATTAGACATTCTGTTCTTTTTGGAGTTAGTACTACATCCCCTGAAGAA
ACATGTGCCCAGGTGATTCTGTGAAGCTAAGAGAACAGCACCAAGTATAGTGTATGTTCT
CATATCCACGTGTGGTGGGAAATAGTTGGACCGACACTTAAAGCCACATTTACCACTTA
TTACAGAATATTCCTTCATTTGCTCCAGTTTTACTACTTGCAACTTCTGACAAACCCCAT
TCCGCTTTTGCCAGAAGAGGTGCAAGAATTGTTTATCCGTGATTATGGAGAGATTTTTAAT
GTCCAGTTACCGGATAAAGAAGAACCGGACAAAATTTTTTGAAGATTTAATTCTAAAACAA
GCTGCTAAGCCTCCTATATCAAAAAAGAAAGCAGTTTTTGAGGCTTTGGAGGTACTCCCA
GTAGCACCA CCACTGAGCCAAGATCACTGACAGCAGAAGAAGTGAACGACTAGAAGAA
CAAGAAGAAGATACATTTAGAGAAGTGGAGTTTTCTTAAGAAATGTTACACATAGGCTT
GCTATTGACAAGCGATTCCGAGTGTCTTACTAAGCCTGTTGACCCTGATGAGGTTCTGAT
TATGTCACTGTAATAAAGCAACCAATGGACCTTTTCATCTGTAATCAGTAAAATTGATCTA
CACAAATATCTGACTGTGAAAGACTATTTGAGAGATATTGATCTAATCTGTAGTAATGCC
TTAGAATACAATCCAGATAGAGATCCTGGAGATCGTCTTATTAGGCATAGAGCCTGTGCT
TTAAGAGATACTGCCTATGCCATAATTAAAGAAGAACTTGATGAAGACTTTGAGCAGCTC
TGTGAAGAAATTCAGGAATCTAGAAAAGAAAAGAGGTTGTAGCTCCTCCAAATATGCCCCG
TCTTACTACCATGTGATGCCAAAGCAAAATTCCACTCTTGTGGTGATAAAAGATCAGAC
CCAGAGCAGAATGAAAAGCTAAAGACACCGAGTACTCCTGTGGCTTGCAGCACTCCTGCT
CAGTTGAAGAGGAAAATTCGCAAAAAGTCAAACTGGTACTTAGGCACCATAAAAAAGCGA
AGGAAGATTTCA CAGGCAAAGGATGATAGCCAGAATGCCATAGATCAAAAATTGAGAGT
GATACAGAGGAACTCAAGACA CAAGTGTAGATCATAATGAGACCGGAAACACAGGAGAG
TCTTCGGTGGAAAGAAAATGAAAAACAGCAAAATGCCTCTGAAAGCAAACTGGAATTGAGA
AATAATTCAAATACTTGTAAATATAGAGAATGAGCTTGAAGACTCTAGGAAGACTACAGCA
TGTAAGAATTGAGAGACAAGATTGCTTGTAAATGGAGATGCTTCTAGCTCTCAGATAATA
CATATTTCTGATGAAAATGAAGGAAAAGAAATGTGTGTTCTGCGAATGACTCGAGCTAGA
CGTTCCAGGTAGAACAGCAGCAGCTCATCACTGTTGAAAAGGCTTTGGCAATTCTTTCT
CAGCCTACACCCTCACTTGTGTGGATCATGAGCGATTAAAAAATCTTTTGAAGACTGTT
GTTAAAAAAGTCAAACTACAAATATTTTCAGTTGGAAAATTTGTATGCAGTAATCAGC
CAATGTATTTATCGGCATCGCAAGGACCATGATAAAACATCACTTATTCAGAAAATGGAG
CAAGAGGTAGAAAACCTCAGTTGTTCCAGATGATGATGTCATGGTATCAGTATTCTTTA
TATTCAGTTCTTATTTAAGTCATTTTTGTGTCATGTCGCTAATTGATGTAGTATGAAACC
CTGCATCTTTAAGGAAAAGATTAAAAATAGTAAAAATAAAGTATTTAAACTTTCTGATAT
TTATGTACATATTAAGATAAATGTGTCATGTGTAAGATAACTGATAAATATTGGAACCTTGC
TAGAACAAGACCCTGTAGTAATAGTAATAATAGTTGAAGTTTGGCCAACCTCTTAATAAAG

FIGURE 1 (CONT'D)

TTATTTTGGTAACTAATGTTTTATGGCACTTAAGAATAATTAGCAGCGTTAAATTTTGT
TGTATTAAGCACTTTTAATTTTATCCTTCCTAAAAATAGTTTATTGTATCTGACAAGAAA
CTTACTTAACCATTTGTGTCCTTCCCATCTTTTTTGTTCATCTTTGTTTTCTTCAAATGCCC
TCCTCCCATCTGCCTTGAGATTCCCTCGTCTTCACTTAAAAGCCAGAGTGCAAGTCATGA
TTTGCGGGAGGGCTCTTGAACCACTTCTGGCTGCACCACAATTCTGTACTTGAGTATCAC
AGTCATTGTTTTTGGAGACAAACATTTTTATAATTCTAATTGGGTAAATAAGATTTTAA
ATATTT

Gene 105. >ENST00000287396 cDNA sequence

AGCACTCCCGGAGCCTGCAACGCTTGAGATCCTCTCCGCGCCCGCCACCCCGCAGGGTGC
CCCGCGCGGTTCCCGCGCGCCCGCGCGCCCGCTCGCGGGCCCTGCACCCCGAGCATCCG
CCCCGGGTGGCAGTCCCCGAGCCACCAGGCCGGCCCGCTCTCCCATCCGTCTAGTCC
GCTCGCGGTGCCATGCCATTCTCGGGCAGGACTGGCGGTCCCCCGGGCAGAACTGGGTG
AAGACGGCCGACGGCTGGAAGCGCTTCTGGATGAGAAGAGCGGCAGTTTCGTGAGCGAC
CTCAGCAGTTACTGCAACAAGGAGGTATACAATAAGGAGAATCTTTTCAACAGCCTGAAC
TATGATGTTGCGACCAAGAAGAGAAAGAAGGACATGCTGAATAGCAAAACCAAACTCAG
TATTTCCACCAAGAAAAATGGATCTATGTTCAAAAGGAAGTACTAAAGAGCGCCATGGA
TATTGCACCCTGGGGGAAGCTTTCAACAGACTGGACTTCTCAACTGCCATTCTGGATTCC
AGAAGATTTAACTACGTGGTCCGGCTGTTGGAGCTGATAGCAAAGTCACAGCTCACATCC
CTGAGTGGCATCGCCCAAAAGAACTTTCATGAATATTTTGGAAAAAGTGGTACTGAAAGTC
CTTGAAGACCAGCAAAACATTAGACTAATAAGGGAAGTACTCCAGACCCTCTACACATCC
TTATGTACACTGGTCCAAAGAGTCGGCAAGTCTGTGCTGGTCCGGGAACATTAACATGTGG
GTGTATCGGATGGAGACGATTCTCCACTGGCAGCAGCAGCTGAACAACATTGAGATCACC
AGGCCTGCCTTCAAAGGCCTCACCTTCACTGACCTGCCTTTGTGCCTACAACTGAACATC
ATGCAGAGGCTGAGCGACGGGCGGGACCTGGTCAGCCTGGGCCAGGCTGCCCCCGACCTG
CACGTGCTCAGCGAAGACCGGCTGCTGTGGAAGAACTCTGCCAGTACCACTTCTCCGAG
CGGCAGATCCGCAACGATTAATTCTGTGAGCAAAAGGGCAGCTGGATTGGAAGAAGATG
TATTTCAAACCTTGTCCGATGTTACCCAAGGAAAGAGCAGTATGGAGATACCCTTCAGCTC
TGCAACACTGTACATCCTTTCTGGAAGGGCACTGACCATCCGTGCACTGCCAATAAC
CCAGAGAGCTGCTCCGTTTCACTTTACCCAGGACTTTATCAACTTGTTCAAGTTCTGA
ATCCAGCACATGACAACACTTCAGAAGGGTCCCCCTGCTGACTGGAGAGCTGGGAATAT
GGCATTGTGGACACTTCATTTGTAAATAGTGTACATTTTAAACATTGGCTCGAACTTCAG
AGATAAGTCATGGAGAGGACATTGGAGGGGAGAAATGCAGTTGCTGACTGGGAATTTAAG
AATGTGAACCTTCTCACTAGAATTGGTATGGAAGCAAAATACTGTAAATAAACTTTTTT
TCTAACAATTTGCC

Gene 106. >ENST00000303924 cDNA sequence

ATGCATTGTGAGAGGTTTCTATGTATCCTGAGAATAATTGGAACCACACTCTTTGGAGTC
TCTCTCCTCCTTGAATCACAGCTGCTTATATTGTTGGCTACCAGTTTATCCAAACGGAT
AATTACTATTTCTCTTTTGGACTGTATGGTGCCTTTTGGCATCACACCTCATCATCAA
AGCCTGTTTGCCTTTTGGAGCACCGAAAAATGAAAAATCCCTAGAAACCCCATAAAG
TTGAACAAAACAGTTGCCCTTTGCATCGCTGCCTATCAAGAAGATCCAGACTACTTAAGG
AAATGTTTGAATCTGTGAAAAGGCTAACCTACCCTGGGATTAAAGTTGTTCATGGTCATA
GATGGGAACCTCAGAAGATGACCTTTACATGATGGACATCTTCAGTGAAGTCATGGGCAGA
GACAAATCAGCCACTTATATCTGGAAGAACTTCCACGAAAAGGGTCCCGGTGAGACA
GATGAGTCACATAAAGAAAGCTCGCAACACGTAAACGCAATTGGTCTTGTTCCAACAAAAGT
ATCTGCATCATGCAAAATGGGGTGGAAAAAGAGAAGTCATGTACACAGCCTTCAGAGCA
CTGGGACGAAGTGTGGATTATGTACAGGTTTGTGATTTCAGACACTATGCTTGACCCAGCC
TCATCTGTGGAGATGGTAAAAGTTTGTAGAAGAAGATCCCATGGTTGGAGGTGTTGGGGGA
GATGTCCAGATTTTAAACAAGTACGATTCTGGATCTCATTCCTCAGCAGTGTAAGATAT
TGGATGGCTTTTAAATATAGAAAGGGCCTGTGAGTCTTATTTTGGGTGTGTTTCAGTGCATT
AGTGGACCTCTGGGAATGTACAGAACTCCTTGTGTCATGAGTTTGTGGAAGATTGGTAC
AATCAAGAATTTATGGGCAACCAATGTAGCTTTGGTGATGACAGGCATCTCACGAACCGG
GTGCTGAGCCTGGGCTATGCAACAAAATACACAGCTCGATCTAAGTGCCTTACTGAAACA
CCTATAGAATATCTCAGATGGCTAAACCAGCAGACCCGTTGGAGCAAGTCTACTTCCGA
GAATGGCTGTACAATGCAATGTGGTTTCAAAACATCACTGTGGATGACCTACGAAGCG

FIGURE 1 (CONT'D)

ATTATCACTGGATTCTTTCTTTCTTTCTCATTGCCACAGTAATCCAGCTCTTCTACCGG
GGTAAAATTTGGAACATTCTCCTCTTCTTGTAACTGTCCAGCTAGTAGGTCTCATAAAA
TCATCTTTTGGCAGCTGCCTTAGAGGAAATATCGTCATGGTCTTCATGTCTCTCTACTCA
GTGTTATACATGTGAGTTTACTTCCCGCCAAGATGTTTGCAATTGCAACAATAAACAAA
GCTGGGTGGGGCACATCAGGAAGGAAAAACATTGTTGTTAATTTTATAGGACTCATTCCA
GTATCAGTTTGGTTTACAATCCTCCTGGGTGGTGTGATTTTACCATTATATAAGGAGTCT
AAAAGGCCATTTTCAAGATCCAAACAGACAGTTCTAATTGTTGGAACGTTGCTCTATGCA
TGCTATTGGGTGATGCTTTTGAAGCTGTATGTAGTTCTCATCAATAAGTGTGGCAGGCGG
AAGAAGGGACAACAATATGACATGGTGTCTTGATGTATGA

Gene 107. >ENST00000329599 cDNA sequence

TGCATGAGGGGGATAGGGAAGTTTGGCCCCACCAGAATGATCACCAAGACATACAAAGTA
GACCTGGGCCCCTGGGCTCCAGAGAAGAAAAAGAAGAAGAAAGTGGTCAAAGAACAGAG
ACTCAATATTCAATTTTAAACAATGATGATTACTTTGCCAATGTTTCTCCTATAAGAGCC
ACATCCCCTTCTAAGAGTGTAGTCCATAGGCAGGCACCTGAGATGCCTCTAGCGAAGAAA
AAGGAGAAAAAGAAGGGTGTGAGCGCCCTTTGCGAGGAGCATGTGGAACCTGAGACCAAG
CTGTGTGCCAGACAGACAGAGAAGTCACCCAGCCCCAGGAAGCAGGTACTTGGCCACTTG
AAGTTCCTCAGTGGGGAGAAGAAAAAGAAGTCACCTCAGGCTATGTCCATGCCTCCAGG
GTGAAAACCTCCTCAGACCTCAGACATAGTGAGGAGGAAACAGAGTCGGAAAGAACTT
AAAAAACACAAGAAGGCAAAAAATAGGGGGCCAGGACCAGCCTTCTCAGTCCAGGACCC
TTGGTTCTGCAAGGCCGGGATGCTGCAGACACTTGCTCAGTGGGGAAGGAGGGTGAGGAA
CAGGCAACCTTGGGGCAGAAACAGAAGCAGAAGAGCCCCAGGGAACACAGTGGGAAGGTG
AAGAAGAAAAAAAACACCAGGAGGGAGACCTCCTCCAGGCCACTCCAAGCCCTCCAGG
TCCTTGGAGAGCAGCCCCATAAAGGAAGTAAACTAAACCAGTCAAAGTTGAGGCTCCG
GAATATATCCCATAGGAGATGGCCCTAAGGCCCCCGCAAGAAAAAGATGAAGTCCAAG
AAGAAGGTACCGAGGAGCCGGCTCTGAAAAGGAAGAAAAAAAAGAGGAAAGAGAGTGGG
GTAGCAGGAGACCCTTGGAAGGAGGAAACAAACATGGACTTAGAGGTGGTGTGGAAAGG
AAAGGCAATATGGACGAGGCGCACATAGACCAGGTGAGGCGAAAGTCTTGCAAGAAGAG
GTCCATCAGGAGTCAAGCAAAACGGAAGCTTCTGAAACCTGGAAGTGGACGGGAACCCAG
TTTGGCCAGTGGGATACTGCTGGTTTTGAGAACGAGGAACAGAACTGAAATTTCTCAA
CTTATGGGTGGCTTCAAAAATCTCTGCCCCCCCCCAACCCAGCACGATTGCAAGG
CCCAACATGGCCCTCAGCAAGAAGGCAGCCACAGCCTGCAGCAGAACCTGCAGCAGGAC
TACGACCGGGCCATGAGCTGGAAGTACAGCCGCGGAGCCTGCTTTGGCTTCTCCACCGCC
AACAAGATCTTTTATATTGACAGGAACACTTCCAAGTCAGTC

Gene 108. >ENST00000308614 cDNA sequence

CTAGTGGACATCTGAAACCTTAAACATCTCATCTGTGCAAAAAAGAGGAATGAGCCAGG
TCGGGAGAGTGAGAAGCTCGCACCACTTCGAAAGCGTCTGCCTGGATGCTGAAGTTCGGG
TTGTTCTTGTAGCTCTGGATCACGCAGGACTTCACACCTTGTCTCCGCACTCAATGAGA
GCCTGAGGCCGATCCACAGAGAGGAGCTGCACCTTCTTCATTTCCCGAACTCCCCAGAAG
AGAACCTGAGGAAAAGACCAGCAGAGCCATCACACAGATCCACGGAGGAGCCCCACACC
TGCCCTGGCTCTGTGTGGAAGGTTAGACCTGCTCCCTGAGAACCACGCTGTGTTTCTCC
AGGAAAGAACTGCACAGCTTTTTGAGGGCTCATTCTTTTTCTCTAGGTCTCCCGCCATT
CCATATCACCTCTCCTACAATTGAGGTGGGGCCACTGCCCTTGAGTGCCAAAGAACAACT
CAGCTCCTCCGCTGACCCGTACCTCCACTCGGTATTTGCTCAGCACCGGCCGAATGTTGG
CAGGAACCGGGTAGATCTGGGTGATGTCTGGTGGCTCAACGGGTGGGAGGCCTTGACAGCC
CAGAAGGAGGAACCTACCGCACAAAGACATATTCTCGTTGGCAACAGCAGATGTGGTTAAG
CTAATTAACAAGAAAGCTCAGAAAAAGGAGAGCAGACACTGCAATGCGCAATAGGCTTAA
GGTAATGAAGCTGCAGGATACACAGCCAGATCAAGAAGCTGGTAAATAATGAGGATGG
CAATGCCCAATACTGCCTGGCAGTGATGAGAGTCAATAATGTGAGTGAATTTCTCCATA
AAGGGCTTGACTTAGGGTTGGGCCAGGAAAAGCCATTACTGAATGGAGATCTGGAAGGGA
AATGGAAAGCAATGGGACAGCAAAGGGAAACAAGCCAGCTCAGCAGGAAGCAAGATGGG
AACTTCATGGTCTCCAAGGTCTCCGCTCCCCTTCTGTGATGCTCACTTCTTGACTCCCTC
CTGACCTTGACCCAAAGACAGGGGCTGTGAGGAGTCTGCGAGGAGGTGGGGAAGCTTTA
GGCAGGCTTCTGGAACCTACTGTTTTACTTAATATATTTGTGCTTCTGCAACCTCATGAG
GAGGTAGAGATATTAAATAAAGAAACAAACCCCTTCTCTTCTATTTTAGACTACCTAATTT

FIGURE 1 (CONT'D)

AAGAAAAGAATATTTGTGTAAGTTAAAAAATCCTCCAGTAAGCTTTGGACTCTATCCAA
GGGTTTCCAGCACACAAACGTCTTTGGAGAACAAGAGGTTTGGTTTACATCATAAAAGAAAA
GGGATAGAGATTAAAGTGTTGTGAAAGGCGTCAAGCAACAAGCAAGAGAGAAAGAAACA
CAGAAAGGCTGAGAAAATACCCATCCATTTCTTTTCCAGCCAGGGGAGATCAGTAAAAACC
TCCTGTCTCCAAAAGCATGGACATTTTTATTAAACAGCAATAGGACCTGGAATTAGCTG
GAGGCTGGGTACAGTTGCAGGTTGCTTTATACAAGTATCACATTCCTGAAGAAGTGTGTA
GACTGACGTTCTGTAAACCAGATCCAATTTTAATTGCCATTTAAATGGAAGTCAGTGAAA
AACTCTTTTAGTAAAGCAAATGATCATCACC

Gene 109. >ENST00000327482 cDNA sequence

ATGGGGGACATCTTCCACCACTTCTTAAAGGGCTTTTTTGGCACAAAAGAAGTGCCCATC
ATCATGGTGGGCCTGGATGCTGCAAGGAAGACGCCAATCCTGTACAAGCTGAAGTTGGGC
GAGATTATGACCACCGTCCCCACCTTAGACTTCAGCGTGGAGAATGCGGAGTACAAGAAC
ATCAGCTTCAGCCTGTGGGATGGGTGGCCAGGACAAGGCCACTACTTCCAGTGACACAA
GGCCTGATCCTCGTGGTGGACTGCAATGACAGAGAGCTCATGGACGAGGCCAGGAGGGG
CTCATGAGGATGCTAGCTGGGGTCAATCTTGGGATGCAGTCCCCAACAAGCGGGGCCTCC
CCAACACCAAGAATGCAGCCGGGATCACAGACACGTTGGGGCTCACTCCCTACCAAGGA
ACTGGTATATTAGGCTACCCGACCATCAGCGGCGACGGGCTCTGTGAAGGACTGGACT
TGTCCCAGCAGCTCCCAAACCAGAAGTGAACGAACCCCGATCCTCTCACTCCTCCTCTTG
CCTTCCACTTTACTCTCATGTAGCAAATGTGTAGTTTGGTGTGAGTGCCAGAAGCTGCCT
CTGTGGTTGAGTCACCATGTGCATCTCACCGTGTCTGTA

Gene 110. >ENST00000330102 cDNA sequence

GCATTTAATCTTAGTCCAGCTGATCCAGATGGCAAATCAGATCCCTACATTGTGATCAAG
CTTGGCAAGACAGAAATCAAAGACCGGGATAAATACATCCCTAAACAACCTGAACCCAGTA
TTTGGAAAGGTCATTTGAGATCCAAGCCACATTCCCAAAGAGTCCCTGCTCTCCATCCTG
ATCTATGACCATGACATGATTGGCACAGATGACCTTATTGGTGAGACCAAGATCGACCTG
GAGAACCGCTTCTACAGCAAACACCGAGCCATCTGTGGCTTGAGAGCCAGTATGAGATA
GAAGGATACAATGCCTGGAGAGACACGTCCAAACCCACCGAAATCCTCACTAAGCTCTGC
AAAGACAACAAGCTGGATGGACCCTACTTTACCCCTGGGAAAATACAGATAGGAAACCAA
GTCTTTTCTGGAAAACTATCTTCACTGAAGAGGACACTGATGAGACAGTGGAGTCTTAT
GAACACCTGGCCCTCAAGGTTTTACACTCTTGGGAGGATATCCCGGAAGTCGGGTGTAGG
CTGGTTCTCTGAACACATAGAACTCGGCCACTGTACCACAAGGATAAGCCAGGAATGGAG
CAGGGCCGCTGCAGATGTGGGTGGACATGTTTCCCAAGGATATGCCTCAACCTGGACCT
CCTGTTGACATCTCTCCAAGGCGACCCAAAGGATACGAATTGAGAGTGACCATCTGGAAC
ACTGAAGATGTCATTTTAGAGGATGAGAATATCTTACAGGCCAAAAATCAAGTGATATT
TATGTGAAAGGTTGGTTAAAGGGCTTGGAGGATGACAAGCAGGAGACAGATGTGCATTAC
AACTCCCTGACTGGAGAGGGCAACTTCAACTGGCGCTTCTGTCTTCCCTTTTCACTATCTC
CCAGCTGAGAAGCAAATGGTCATTACCAAGAGGGAGAACATCTTCTCTTTAGAGAAGATG
GAGTGTAAGACTCCTGCTGTGTTGGTGCTGCAGGTTTGGGATTTTGAAAGGCTGTCTCA
GATGACTTCTGGGCACCTGGAAATGAACCTCAACAGTTTCCCTCGAGCAGCTAAGTCT
GCCAAAGCCTGTGATCTTGCCAAGTTTGAAATGCAAGTGAGGAGACCAAGATCTCTATA
TTCCAGCAAAAACGTGTGCGTGGCTGGTGGCCTTTTTCTAAAAGCAAAGAACTCACAGTA
AGTGACAGCTATGGGAGGTGGAGGAGATGGGGGAAAAGGTTGCCATTGGCTCAGTGGGTG
TTTGTGACTGGAAACAAAAGGTTTTGCATCTTTTTGCAGGGCAAGGTTGAAGCTGAGTTC
CACCTAGTTACAGCAGAAGAAGCTGAGAAAAATCCTGTTGGAAAAGCCGAAAGGAGCCA
GAGCCCCTGGCCAAGCCCAACCGCCCGAGACACCTCCTTTTCGTGGTTTCATGAGCCCCTTT
AAGTGCCTGTACTACCTCATCTGGAAGAATTAC

Gene 111. >ENST00000321393 cDNA sequence

ATGGACATCCTCCCTTACCTTACATGTACATGGCAAGTGCCCTCTCCTGGTGAGGGGC
AAGGGTGAGATGGAGGGAGAAGCCCTGTTGAGCTGCTTGGCCATGAACAGTTTGGGGGAA
CAGGAAGCTTGCCTTGACCTCGGGTCCAAGACTCCCTCCCTAGAGATCTCATCAAATAAC
CAGGAAAGACCAACCAAAGAGAAGAGACTGGAATCATCTGCCAGAAAGACTTTTTCATC
TATTCTTCTAAGGACAGCTCCAAGAGATTACCTGGGGGACTTTGTATAAAAAATAAGACA
ACCTGTGTTCTGTGCAGCTTCATCCCTCATCTTTCCCTAAGTGTCAAGAAGCAATAGTT
AGTCCACAAGCACGAGTGAAATTACTGAACAAAATTAAGATGGATACAGCACTCTAA

FIGURE 1 (CONT'D)

Gene 112. >ENST00000287437 cDNA sequence

GCCCGCTCTCACTTTTTCAGCGGCAGGCGAAGGGGGCTGAGGAAAGGAGGTGGGTCTAGGC
AGGGGAAATTGGGGTGCCACCAGACGGAGACAGCTTGGACTACCAGAATCAAGCACTCTT
TTGGAAGAGGGTAATCTCTCTCCAAAACTGAGGACACTTACCTTCCCATATATTGAGT
CCAGCTGTGTTTGGTGGCCAGGTACTAATTTCAAGATGCCAGGACGTTCCAGTTCAAAT
TCAGGTTCAACTGGTTTCATCTCCTTCAGTGGTGTAGAGTCTGCTCTCTCCTCCTTGAAA
AACTTCCAAGCCTGTATCAACTCTGGTATGGACACAGCTTCTAGTGTGCTTTGGATCTT
GTGGAAGTCAAGTGAAGTGAATATAGTATGGACAAGGCAATGGTTGAATTT
GCTACATTGGATCGGCAACTAAACCATTTATGTAAAGGCTGTTCAATCTACAATAAATCAT
GTGAAAGAAGAACGTCCAGAAAAAATACCAGATTTAAAATTATTGGTAGAGAAGAAATTT
TTGGCTTTACAGAGCAAGAATTCTGATGCAGACTTTCAAATAATGAAAAATTTGTACAG
TTTAAACAACAGCTGAAAGAACTAAAGAAGCAATGTGGTCTTCAAGCTGACAGAGAAGCT
GACGGAACAGAAGGAGTGGATGAAGATATAATTGTGACCCAAAGTCAGACCAACTTCAAC
TGCCCCATTACAAAGGAGGAAATGAAGAAGCCAGTGAAAAATAAAGTGTGTGGCCACACC
TATGAAGAGGACGCCATTGTTTCGCATGATTGAGTCCAGGCAAAAGCGGAAGAAAAGGCC
TATTGCCCTCAAATTGGCTGTAGCCACACGGATATAAGAAAGTCAGATCTTATCCAGGAT
GAAGCACTTAGAAGGGCAATTGAGAACCATAAACAAGAAAAGACATCGTCATTCCGAGTAG
GAAAAGCCACCTGCCTGCAGGGACACAGCAGCCTACCTCCTACCCAGCTGTCTGTTGA
GAGCAGTGCTGACCCAGCAGTTAGGGACTGGCTGCATAGCATACTTGTGGGGGTAAAA
CTTGTGTGCTTTTATGTGTGCTTGAAAAACATTTTTTCAAAGTTACACAACAGAAATGCAATC
ATATTGTTTATTTTTAAGTGTCTATAATGTTAAATAAAACTTTGATCATCTGC

Gene 113. >ENST00000311709 cDNA sequence

ATGGGGAAAAACAGAACAGAAAACTGGAACTCTAAACCGCAGAGCGCCTCTCCTCCT
CCAAAGGAACGCAGTTCTCAACAGCAACAGAACAAAGCTGGATGGAGAATGATTTTGAT
GAGCTGAGAGAAGAAGGCTTCAGACGATCAAATTAATCTGAGCTACGGGAGGACATTCAA
ACCAAAGGCAAAGAAGTTGAAAACTTTGAAAAAATTTAGAAGAATGTATAACTAGAATA
ACCAATACAGAGAAGTGCTTAAAGGAGCTGATGGAGCTGAAAACCAAGGCTCGAGAACTA
CGTGAAGAATGCAGAAGCCTCAGGAGCCGATGCGATCAACTGGAAGAAAGGGTATCAGCA
ATGGAAGATGAAATGAATGAAATGAAGCGAGAAGGGAAGTTTAGAGAAAAAGAATAAAA
AGAAATGAGCAAAGCCTCCAAGAAATATGGGACTATGTGAAAAGACCAAATCTACGTCTG
ATTGGTGTACCTGAAAGTGATGTGGAGAATGGAACCAAGTTGGAAAACACTCTGCAGGAT
ATTATCCAGGAGAACTTCCCAATCTAGCAAGGCAGGCCAACGTTTCAAGATTCAAGAAATA
CAGAGAACGCCACAAAGATACTCCTCGAGAAGAGCAACTCCAAGACACATAATTGTGAGA
TTCACCAAAGTTGAAATGAAGGAAAAAATGTTAAGGGCAGCCAGAGAGAAAGGTCGGGTT
ACCCTCAAAGGAAAGCCCATCAGACTAACAGCGGATCTCTCGGCAGAAACCTTCAAGCC
AGAAGAGAGTGGGGGCCAATATTCAACATTCTTAAAGAAAAGAATTTTCAACCCAGAATT
TCACATCCAGCCAACTAAGCTTCATAAGTGAAGGAGAAATAAAATACTTTATAGACAAG
CAAATGTTGAGAGATTTTGTCAACACCAGGCCTGCCCTAAAAGAGCTCCTGAAGGAAGCG
CTAAACATGGAAAGGAACAACCGGTACCAGCCGCTGCAAAACCATGCCAAAATGTAA

Gene 114. >ENST00000303545 cDNA sequence

GAAACCCAGAGACCTCCTGGGGAGCCGCCGCCGCCCTCTCGGCCATCGCTGCCTCCG
CCGCCTGCTCCACCTCGAGGGACGCGAGCGGGCGGGGGCTGGCCGTGAGAGAGACAGG
AGAGGAAGGAGGGCAGGGGCGGAGTTGCCCGCCTTAGCCCCCGCCCCGGCCGCGGCCCC
GGGCCCTGCCCGCGCGGCCCTGCCCGGCCCAACGAGCCCTGGTGTGGCAGCGGCTCATG
GCGGCCGTGGGGCCCCCGCAGCAGCAGGTGCGGATGGCCCATCAGCAGGTCTGGGCGGCG
CTCGAAGTGGCGCTCCGGGTGCCCTTACATCATCGACGCCATCTTCAACTCCTAC
CCGGATTCCAGCCAAAGCCGGTTCTGCATCGTGCTCCAGATCTTCTCCGGCTCTTTGGT
GTATTTGCATCCAGTATTGTTCTGATCTTGTCAACAGATCACTTTTCAAGTTTACACG
TACAGCTCAGCCTTTCTGTTAGCTGCAACTTCAGTGTGGTGAATTATTATGCTTCTTTG
CACATTGACTTCTATGGTGCCTACAAACAGTCAGCTTTTGGAAATTGAGCTGCTTCTCGA
AAAGGTCCCTCGCTGTGGATGGCACTTATCGTTCTACAGCTAACATTTGGAATTGGATAC
GTTACACTACTCCAGATTCATTCCATCTATTACAATTAATTATTTGGATCTCTTGGTT
CCTGTAATAGGCTTAATCACAGAGCTACCATTACACATCAGAGAGACTTTACTGTTTACT
TCTTCCTTGATTCTCACATTAAATACAGTGTGTTGTCCTGGCAGTGAAACTGAAGTGGTTT

FIGURE 1 (CONT'D)

TATTATTCCACACGATATGTTTTATCTTTTGGTGAGGCACATGTATCGAATTTACGGATTA
CAGTTATTGATGGAGGACACATGGAAGAGGATTCTGTTTCCAGACATACTACGAGTCTTT
TGGCTAACAAAGAGTTACAGCTCAGGCTACAGTGTTAATGTACATCTTAAGGATGGCAAAT
GAAACTGATTCTTTCTTTATTTCTTGGGATGATTTTTGGGACCTCATTTGCAATCTTATA
ATTAGTGGGTGCGATTCTACACTAACTGTACTGGGCATGAGTGCTGTAATTTCTCAGTA
GCCCCATTATTTGGGGCTTGGAATATTGGCCTTTATTGGATCAACTGAGGAAGATGACAGG
CGTCTTGGCTTTTGTGACCTGTTTTATTTTTTATTTTGGCTCTTCAGACTGGGTAAAGT
GGGCTAAGACCAGAAGAGAGACTTATTTCGCTTAAGTAGAAACATGTGCCTTTTATTAAT
GCAGTCCTGCATTTTATCCATGGAATGACAGACCCTGTATTAATGTCTCTCAGTGCCTCT
CATGTGTCTCTTTTCTGAGACATTTTCTGTGCTGTTTGTCTCTGCTTGCCTGTTTATT
CTTCTGTCTTACTCAGTTATGTTCTTTGGCATCACTATGCACTAAATACATGGTTGTTT
GCAGTTACAGCATTTTGTGTGGAAGTGTGCTTAAAAGTAATTGTTTCTCTCACTGTTTAT
ACGTTATTTCATGATTGATGGCTACTATAATGTCTCTGGGAAAAGCTTGACGATTATGTC
TACTACGTTTCGTTCAACAGGCAGTATTATTGAATTTATATTTGGAGTTGTAATGTTTGG
AATGGGGCTTACACTATGATGTTTTGAGTCGGGAAGTAAAATTCTGGGCTTTTATGATGTGC
CTACATGCATATTTTAAACATCTACTTACAAGCCAAAAATGGCTGGAAGACATTTATGAAT
CGTAGGACTGCTGTGAAGAAAATTAATTCACCTTCTGAAATAAAAAGGGAGCCGCTTACAA
GAAATAAATGATGTATGTGCAATCTGCTATCATGAGTTTACAACATCTGCTCGTATTACA
CCGTGTAATCATTATTTCCATGCATTTTGCTTTCGGAATGGCTGTACATTCAAGATACT
TGTCCAATGTGCCATCAGAAAGTATACATCGAAGATGATATCAAGGATAATTCAAATGTA
TCTAACAAATGGATTTATTCCACCAATGAAACTCCAGAGGAAGCTGTAAGAGAAGCT
GCTGCTGAATCTGACAGGGAATTGAACGAAGATGACAGTACAGATTGTGATGATGATGTT
CAAAGAGAAAGAAATGGAGTGATTGAGCACACAGGCGCAGCAGCTGAAGAATTTAATGAT
GATACTGACTGATGAAAATAGCATTTTATTAATGATTGAGGTATTTGTTTAAAATTGAGTT
CATCCAAAATGGAGTAATATCCTTCACCTTCAGTGTGTAACCAAGCACAAAAACAGTATC
AATGTTGAATCTGTGAATGGTTTTCCGTTTACTGTGATGTGCTACTGTAAATATACCTCT
TTAATTACTTCTGGTCTCTTTGGTGACCTGTTTAAATTTGTGTACATTATTGTACATAGA
ATAAAATGTTTTTACATTTTTTATG

Gene 115. >ENST00000259512 cDNA sequence

GCCCGTCTCCGCCTTCTGCATCGCGGCTTCGGCGGCTTCCACCTAGACACCTAACAGTCG
CGGAGCCGGCCGCGTCTGAGGGGGTGGCACGGGGAGTCGGGCGGTCTTGTGCATCTTG
GCTACCTGTGGGTGGAAGATGTGCGACATCGGAGACTGGTTCAGGAGCATCCCGGCGATC
ACGCGCTATTGGTTGCGCCGCCACCGTTCGCGTGCCTTGGTCGGCAAACCTCGGCCTCATC
AGCCCGGCCTACCTCTTCTCTGGCCCGAAGCCTTCTTTTATCGCTTTCAGATTTGGAGG
CCAATCACTGCCACCTTTTATTTCCCTGTGGGTCCAGGAACTGGATTTCTTTATTTGGTC
AATTTATATTTCTTATATCAGTATTCTACGCGACTTGAAACAGGAGCTTTTGATGGGAGG
CCAGCAGACTATTTATTCATGCTCCTCTTTAACTGGATTTGCATCGTGATTACTGGCTTA
GCAATGGATATGCAGTTGCTGATGATTCTCTGATCATGTGAGTACTTTATGTCTGGGCC
CAGCTGAACAGAGACATGATTGTATCATTTTGGTTTGGAAACAGATTTAAGGCCTGCTAT
TTACCCTGGGTATCTTGGATTCAACTATATCATCGGAGGCTCGGTAATCAATGAGCTT
ATTGGAAATCTGGTTGGACATCTTTATTTTTTCTAATGTTTCAGATACCCAATGGACTTG
GGAGGAAGAAATTTCTATCCACACCTCAGTTTTTGTACCGCTGGCTGCCCAGTAGGAGA
GGAGGAGTATCAGGATTTGGTGTGCCCCCTGCTAGCATGAGGCGAGCTGCTGATCAGAAT
GGCGGAGGCGGGAGACACAACTGGGGCCAGGGCTTTCGACTTGGAGACCAGTGAAGGGGC
GGCCTCGGGCAGCCGCTCCTCTCAAGCCACATTTCTCCAGTGCTGGGTGCACTTAACA
ACTGCGTTCTGGCTAACACTGTTGGACCTGACCCACACTGAATGTAGTCTTTGAGTACGA
GACAAAGTTTCTTAAATCCCGAAGAAAAATATAAGTGTTCCACAAGTTTACGATTCTCA
TTCAAGTCCTTACTGCTGTGAAGAACAAATACCAACTGTGCAAATTGCAAAACTG

Gene 116. >ENST00000276689 cDNA sequence

CCTTCCGGCTGGCCCCGCTCAGTCACCCGACGAGGCGTGAGTTTCCCGGCTCTCCGCG
CGGCCGGGAAGGTGAGCGCCGTAATGGCGTTCTTGGCGTCGGGACCCTACCTGACCCAT
CAGCAAAAGGTGTTGCGGCTTTATAAGCGGGCGCTACGCCACCTCGAGTCGTGGTGCGTC
CAGAGAGACAAATACCGATACTTTGCTTGTGTTGATGAGAGCCCGGTTTGAAGAACATAAG
AATGAAAAGGATATGGCGAAGGCCACCCAGCTGCTGAAGGAGGCCGAGGAAGAATTCTGG

FIGURE 1 (CONT'D)

TACCGTCAGCATCCACAGCCATACATCTTCCCTGACTCTCCTGGGGGCACCTCCTATGAG
AGATACGATTGCTACAAGGTCCCAGAATGGTGCTTAGATGACTGGCATCCTTCTGAGAAG
GCAATGTATCCTGATTACTTTGCCAAGAGAGAACAGTGGAAGAACTGCGGAGGGAAAGC
TGGGAACGAGAGGTTAAGCAGCTGCAGGAGGAAACGCCACCTGGTGGTCCTTTAACTGAA
GCTTTGCCCCCTGCCCGAAAGGAAGGTGATTTGCCCCACTGTGGTGGTATATTGTGACC
AGACCCCGGGAGCGGCCCATGTAGAAAGAGAGAGACCTCATCTTTCATGCTTGCAAGTGA
AATATGTTACAGAACATGCACCTTGCCTAATAAAAAATCAGTGAAATGGTC

Gene 117. >ENST00000276692 cDNA sequence

GGCCACTTCCGCTTCCGCTGGGGAGGTCTCCATGCGCAGTCATGAGTCGCTTCAAGTTT
ATCGATATTGGTATCAACTTGACTGACCCTATGTTTCAGAGGAATTTATAGGGGGGTTCAA
AAGCATCAAGATGACTTACAGGATGTAATAGGGAGAGCTGTGAGATTGGTGTAAAAAG
TTTATGATTACAGGTGGAAATCTACAAGACAGTAAAGATGCACTGCATTTGGCACAACA
AATGGTATGTTTTTCAGTACAGTTGGATGTCATCCTACAAGATGTGGTGAATTTGAAAAG
AATAACCTGATCTTTACTTAAAGGAGTTGCTAAATCTTGCTGAAAAAATAAAGGGAAA
GTTGTGGCAATAGGAGAATGCGGACTTGATTTTGACCGACTGCAGTTTTGTCCCAAAGAT
ACTCAACTCAAATATTTTTGAAAAACAGTTTGAAGTGTGAGAACAAACAAAATTACCAATG
TTTCTTCATTGTGCAAACTCACATGCTGAATTTTTTGACATAATGAAAAGAAATAGAGAT
CGGTGTGTAGGGGGAGTGGTGCAATTCATTTGATGGTACCAAGGAAGCAGCAGCTGCTTTG
ATTGACTTGGATCTTTATATAGGATTTAATGGTTGCTCACTGAAAACTGAAGCTAATTTG
GAAGTTTTGAAGTCAATTCCTAGTGAAAAATTAATGATTGAGACAGATGCACCTTGGTGT
GGAGTCAAAAGTACACATGCTGGATCAAAATATATAAGAACTGCATTTCTACCAAAAAG
AAGTGGGAAAGTGGGCACTGCTTAAAAGACAGAAATGAACCCTGCCATATAATTCAAATA
TTGGAGATAATGTGAGCAGTGAGAGATGAGGATCCACTGGAATTAGCCAATACACTATAT
AACAATACTATTAAAGTATTTTTTCTGGAATATAATTGGTATATGTCTTCCACTTTCCA
TCATGTATGTAAAATTTTCATAGTAAAACCTTCTGATAGTTTCAATAAAGAAATTATCTGC

Gene 118. >ENST00000297628 cDNA sequence

ATTGCCATAACCATCACCGAGGCTCGCCAGCTGGTGGGTGAGAACATTGACCCAGTTGTG
ACCATTGAGATTGGGGATGAGAAGAAGCAAAGCACAGTGAAGGAAGGAACCAACAGCCCA
TTTTATAATGAATACTTTGTCTTCGACTTCATTGGGCCCCAAGTGCATCTTTTTTGACAAG
ATCATCAAAATCTCCGTAAGTATAGCATTGGTGGTAATAGTTGTGGAGAGGTGGGAGACA
TTTTGGGCATTGGGGACTCTCTGGGCAACTCAGCATACTTAGCGGGGAATAGATTGAGG
AGGGCAAGTGTGAGTTGTGTACTGATTGGCTCTTTCAAAGTAGACCTGGGGACCGTGTAC
AACCAACCTGGTCATCAGTTCTGCAACAAGTGGGCCCTGCTCACAGACCCTGGTGACATC
AGGACTGGCACCAGGGGTACCTGAAATGTGACATCAGTGTGATGGGAAAAGGTGATGTC
TTGAAGACCAGCCCTAAAACCTTCTGACACCGAGGAGCCAATAGAAAAGAACCTTTTGATC
CCCAATGGGTTTTCTGAGAGACCGTGGGCCAGATTCTATGTGAGACTCTACAAAGCA
GAAGGGTTGCCCAAAATGAATTCAGCATCATGGCGAACGTCACCAAGGCATTTGTGGGT
GACAGTAAGGACCTGGTGGATCCCTTTGTGGAGGTCTCCTTTGCTGGGCAGATGGGGCGA
ACCACAGTGCAGAAGAACTGTGCTGATCCTGTGTGGCATGAACAGGTGATCTTCAAGGAA
ATGTTCCCTCCCTTGTGTGCGAGGGTGAAAATCAGGTGTGGGATGAAGGCAGCATGAAT
GACGTAGCCCTGGCAACCCATTTTCATTGACCTGAAGAAAATCTCCAACGAACAGGATGGA
GACAAAGGCTTTCTGCCACCTTTGGGCCTGCCTGGATTAACTGTATGGCTCGCCAGG
AACCACAGTCTGATGGATGACTACCAGGAAATGAACGAAGGCTTTGGGGAAGGTGTGTCA
TTCAGGGGCAGAATCTTGGTAGAAATTGCTGTGGAAATCCTCTCAGGACGGGCACAGGAA
TCTAAATTTTCCAAGGCCCTGAAGGAGCTCAAGTTGCCTTCCAAGGACAAAGACTCCAAA
TCTTCCAAGGTAAAGACAAGGCTGACAAAACCTGAAGATGGAAAATCCAACAGGCTTCA
AACAAAATAACTCAACCGAGGTGGAGGTGGAATCGTTGATGTCCCCCGGAGGTAGAA
AAAAATGAGGAATTTTTACTCTTTGGAGCATTTTTTGAAGCTACCATGATTGACCGGAAG
ATTGGAGATAAACCCATCAGCTTTGAAGTTTCTATTGGTAAG

Gene 119. >ENST00000325995 cDNA sequence

ATGGACGAGGAGTCACTAGATGGGCTGCTCTTCAAAGACCAAGACTTCTCTTCTGACTTG
TTGAGGCAGCTCAACAGCTTAAGGCAAAGCAGGATCCTGACTGATGTGAGCATCTGTGCC
GGTGGCCCGGAGATCCCCTGCCACCGCAACGTGCTGGCCTCCAGCAGCCCCCTACTTCAGG
GCTATGTTCTGCAGCAGCTTCCGGGAGAAGAGTGAAGCCAAAGTGACAGCTGAAAGGCATT

FIGURE 1 (CONT'D)

GACCCCCCAACCCTGGACCAGATCGTCTCCTACGTGTATACGGGGGAGGCACATATTGCC
 ACTGACAATGTCTCTCCCGTGATGGAGGCCGCTCCATGCTACAGTTCCCAAGCTGTTT
 GAGGCCTGCTCCTCGTACTTGACAGAGCCAGTTGGCCCCAGCAACTGCCTGGGTATGATC
 AGACTCTCAGAAATCTTAAGCTGCGAGACCTCAAGAAGAAAGCCAGGGAGGTGGCACTG
 ACGTCTTCCAGAGGTGGCCGCATCGGCCGACCTGAAGGAGCTCTGTGCCTTGAGTTG
 AGGGACTATCTCGGAGATGATGGGCTCTGTGGGAGGAGGAAAAGGTGTTTGAGGCCCTC
 ATGGTTTGGATCAAGCATGACCTCCAGGCCCGGAAGCGATACATGCAGGAAGTGTCAAG
 CAGGTGAGGCTGCAGTACATCCACCCAGCCTTCTTTACCACTTCATCGCCAACGATGCC
 CTCCTGCAGTCTCGCCTGCATGCCAGATCATCTTGAGACCGCCAAGAGACAGATGTTT
 TCTTTGTGTGGCACCACCGTCCCAGACTGCAAACTCCTGTTGCATGTCCCTCCAAGAAAC
 TCTTACCAAGATTTCTCATCTCTTGGGCGGAAGGAAGGACAGCCAGCAGACCACAGG
 GACGTCCTACTGTACAGCAAAACAGACCGGCAATGGCAGAGCCTTGCCAACTCCCGACA
 CGGCTGTACAAGGCCTCTGCCATCACCTTGACCCGAGCATCTATGTGCTGGGGGGCATG
 GCTGTGAGCTCAGGGAGGAGTCTGGTCAGTCACAATGTCTACATCTTCTCCCTGAACTC
 AATCAGTGGAGGCTGGGGGAGCCCATGCTGGTGGCCCGCTACTCCACAGAAGCACTGCC
 CATAAGAACTTCATCTTCTCCATCGGGGGGATTGGAGAAGGGCAGGAGCTCATGGGCTCC
 ATGGAAAGGTATGACAGCATCTGCAATGTCTGGGAGAGTATGGCCAGCATGCCCCTGGGG
 GTGCTCCACCCCGCAGTCTGTGTGAAAGACCAAGACTCTATCTTTTGAGGAGAGGAC
 ATCATGCAGAACCTGTGCGCCTTATCCAGGTTTATCACATTTCCAGAACTCGTGTTT
 AAAATGGAGACAAGAATGATCAAGAACGTGTGTGCCCTGCAGTGGTGCTTGGGGAGCGG
 ATTGTCAATTGTGGGAGGTTACACAAGGAGGATTCTTGCTTATGACCCTCAATCCAACAAA
 TTTGTCAAATGTGCGGACATGAAAGACCGGAGGATGCACCATGGGGCCACAGTGATGGGA
 AACAACTCTACGTGACGGGCGGGCGGCGGCTGACACGGACTGCAACATTGAGGACTCC
 GCCTCCTTCGATTGCTACGACCCCGAGACGGACACCTGGACATCCAGGGACAGCTGCCG
 CACAAGCTCTTTGACCATGCCTGCCTCACTCTC

Gene 120. >ENST00000330051 cDNA sequence

CTCTTCAAAGACCACGACTTCTCTTCTGACTTGTTGAGGCAGCTCAACAGCTTAAGGCAA
 AGCAGGATCCTGACTGATGTGAGCATCTGTGCGGTGCCCCGGGAGATCCCTGCCACCGC
 AACGTGCTGGCCTCCAGCAGCCCTACTTCAGGGCTATGTTCTGCAGCAGCTTCGGGAG
 AAGAGTGAAGCCAAAGTGCAGCTGAAAGGCATTGACCCCCAACCCTGGACCAGATCGTC
 TCCTACGTGTATACGGGGGAGGCACATATTGCCACTGACAATGTCCTCCCCGTGATGGAG
 GCCGCCTCCATGCTACAGTTCCCCAAGCTGTTTGAGGCCTGCTCCTCGTACTTGACAGC
 CAGTTGGCCCCCAGCAACTGCCTGGGTATGATCAGACTCTCAGAAATCTTAAGCTGCGAG
 ACCCTCAAGAAGAAAGCAGGGAGGTGGCACTGACGTCCTTCCCAGAGGTGGCCGCATCG
 GCCGACCTGAAGGAGCTCTGTGCTTGGAGTTGAGGGACTATCTCGGAGATGATGGGCTC
 TGTGGGGAGGAGGAAAAGGTGTTTGAGGCCCTCATGGTTTGGATCAAGCATGACCTCCAG
 GCCCGGAAGCGATACATGCAGGAACTGTTCAAGCAGGTGAGGCTGCAGTACATCCACCCA
 GCCTTCTTTACCACTTCATCGCCAACGATGCCCTCCTGCAGTCTCGCCTGCATGCCAG
 ATCATCTTGGAGACCGCCAAGAGACAGATGTTCTCTTTGTGTGGCACCACCGTCCCAGAC
 TGCAAACTCCTGTTGCATGTCCCTCCAAGAACTCTTACCAAGATTTCTCATCCTCTTG
 GGCGGAAGGAAGGACAGCCAGCAGACCACAGGGAGCTCCTACTGTACAGCAACAGACC
 GGCCAATGGCAGAGCCTTGCCAAACTCCCGACACGGCTGTACAAGGCCTCTGCCATCACC
 TTGCACCGCAGCATCTATGTGCTGGGGGGCATGGCTGTGAGTCTAGGGAGGAGTCTGGTC
 AGTCACAATGTCTACATCTTCTCCCTGAAACTCAATCAGTGGAGGCTGGGGGAGCCCATG
 CTGGTGGCCCGCTACTCCACAGAAGCACTGCCATAAGAACTTCATCTTCTCCATCGGG
 GGGATTGGAGAAGGGCAGGAGCTCATGGGCTCCATGGAAAGGTATGACAGCATCTGCAAT
 GTCTGGGAGAGTATGGCCAGCATGCCCGTGGGGGTGCTCCACCCCGCAGTCGCTGTGAAA
 GACCAAAGACTCTATCTCTTTGGAGGAGAGGACTCATGCAGAACCTGTGCGCCTTATCC
 AGGAGGATTCTTGCTTATGACCCTCAATCCAACAAATTTGTCAAATGTGCGGACATGAAA
 GACCGGAGGATGCACCATGGGGCCACAGTGATGGGAAACAACTCTACGTGACGGGCGGG
 CGGCGGCTGACACGGACTGCAACATTGAGGACTCCGCCTCCTTCGATTGCTACGACCCC
 GAGACGGACACCTGGACA

Gene 121. >ENST00000329589 cDNA sequence

CTCTTCAAAGACCACGACTTCTCTTCTGACTTGTTGAGGCAGCTCAACAGCTTAAGGCAA

FIGURE 1 (CONT'D)

AGCAGGATCCTGACTGATGTGAGCATCTGTGCCGGTGCCCGGGAGATCCCCTGCCACCGC
AACGTGCTGGCCTCCAGCAGCCCTACTTCAGGGCTATGTTCTGCAGCAGCTTC CGGGAG
AAGAGTGAAGCCAAAGTGCAGCTGAAAGGCATTGACCCCCAACCCTGGACCAGATCGTC
TCCTACGTGTATACGGGGGAGGCACATATTGCCACTGACAATGTCCTCCCGTGATGGAG
GCCGCTCCATGCTACAGTTCCCAAGCTGTTTGAGGCCTGCTCCTCGTACTTGACAGAGC
CAGTTGGCCCCCAGCAACTGCCTGGGTATGATCAGACTCTCAGAAATCTTAAGCTGCGAG
ACCCTCAAGAAGAAAGCCAGGGAGGTGGCACTGACGTCCTTCCAGAGGTGGCCGCATCG
GCCGACCTGAAGGAGCTCTGTGCCTTGAGTTGAGGGACTATCTCGGAGATGATGGGCTC
TGTGGGGAGGAGGAAAAGGTGTTTGAGGCCCTCATGGTTTGATCAAGCATGACCTCCAG
GCCCGGAAGCGATACATGCAGGAAGTGTCAAGCAGGTGAGGCTGCAGTACATCCACCCA
GCCTTCTTTTACCACCTTCATCGCCAACGATGCCCTCCTGCAGTCCTCGCCTGCATGCCAG
ATCATCTTGGAGACCGCCAAGAGACAGATGTTCTCTTTGTGTGGCACCACCGTCCAGAC
TGCAAACCTCCTGTTGCATGTCCCTCCAAGAACTCTTACCAAGATTTCTCATCCTCTTG
GGCGGAAGGAAGGACAGCCAGCAGACCACAGGGACGTCTACTGTACAGCAACAGACC
GGCCAATGGCAGAGCCTTGCCAACTCCCGACACGGCTGTACAAGGCCTCTGCCATCACC
TTGCACCGCAGCATCTATGTGCTGGGGGGCATGGCTGTGAGCTCAGGGAGGAGTCTGGTC
AGTCACAATGTCTACATCTTCTCCCTGAAACTCAATCAGTGGAGGCTGGGGGAGCCCATG
CTGGTGGCCCCGCTACTCCACAGAAGCACTGCCATAAGAACTTCATCTTCTCCATCGGG
GGGATTGGAGAAGGGCAGGAGCTCATGGGCTCATGGAAAGGAGGATTCTTGCTTATGAC
CCTCAATCCAACAAATTTGTCAAATGTGCGGACATGAAAGACCGGAGGATGCACCATGGG
GCCACAGTGATGGGAAACAACTCTACGTGACGGGCGGGCGGCGGCTGACCACGGACTGC
AACATTGAGGACTCCGCTCCTTCGATTGCTACGACCCCGAGACGGACACCTGG

Gene 122. >ENST00000262219 cDNA sequence

CTGTTGTAACTTTGCCTGTAGGAGGACTGATCTCTTGATGAAATA CAGAAAAACCATCT
CAGAAAAAGGAAAATGGGCAATCGTCATGCTAAAGCGAGCAGTCTCAGGGTTTTGATGT
GGATCGAGATGCCAAAAAGCTGAACAAAGCCTGCAAAGGAATGGGGACCAATGAAGCAGC
CATCATTGAAATCTTATCGGGCAGGACATCAGATGAGAGGCAACAAATCAAGCAAAAGTA
CAAGGCAACGTACGGCAAGGAGCTGGAGGAAGTACTCAAGAGTGAGCTGAGTGGAACTT
CGAGAAGACAGCGTTGGCCCTTCTGGACCGTCCAGCGAGTACGCCGCCCGGCAGCTGCA
GAAGGCTATGAAGGGTCTGGGCACAGATGAGTCCGTCTCATTGAGGTCTGTGCACGAG
GACCAATAAGGAAATCATCGCCATTAAAGAGGCCTACCAAAGGCTATTTGATAGGAGCCT
CGAATCAGATGTCAAAGGTGATACAAGTGGAAACCTAAAAAAAATCCTGGTGTCTCTGCT
GCAGGCTAATCGCAATGAAGGAGATGACGTGGACAAAGATCTAGCTGGTCAGGATGCCAA
AGATCTGTATGATGTATGGGAAGGCCGCTGGGGCACTGATGAGCTTGCGTTCAATGAAGT
CCTGGCCAAGAGGAGCTACAAGCAGTTACGAGCCACCTTTCAAGCCTATCAAATTTCTCAT
TGGCAAAGACATAGAAGAAGCCATTGAAGAAGAAACATCAGGCGACTTGCAGAAGGCCTA
TTTAACTCTCGTGAGATGTGCCCAGGATTGTGAGGACTATTTTGCTGAACGTCTGTACAA
GTCGATGAAGGGTGCGGGGACCGATGAGGAGACGTTGATTTCGCATAGTCGTGACCAGGGC
CGAGGTGGACCTTCAGGGGATCAAAGCAAAGTTCGAAGAGAAGTATCAGAAGTCTCTCTC
TGACATGGTTTCGCTCAGATACCTCCGGGGACTTCCGGAAACTGCTAGTAGCCCTCTTGCA
CTGAGCCAAGCCAGGGCAATAGGAACACAGGGTGGAAACCGCCTTTGTCAAGAGCACATT
CAAATCAAACCTTGCAAATGAGACTCCCGCACGAAAACCTTAAAGAGTCCCGGATTACTTT
CTTGGCAGCTTAAAGTGGCGCAGCCAGGCCAAGCTGTGTAAGTTAAGGGCAGTAACGTTAA
GATGCGTGGGCAGGGCACCTTGAACCTGGCTTAGCAAGCATCTAGGCTGCCTCTTCACT
TTCTTTTAGCATGGTAACTGGATGTTTTCTAAACACTAATGAAATCAGCAGTTGATGAAA
AAACTATGCATTTGTAATGGCACATTTAGAAGGATATGCATCACACAAGTAAGGTACAGG
AAAGACAAAATTAACAATTTTATTAATTTTCTTCTGTGTGTTCAATTTGAAAGCCTCAT
TGTTAATTAAAGTTGTGGATTATGCCTCT

Gene 123. >ENST00000334705 cDNA sequence

CTAGGAAGAACTTGGAGCTGTTTCAGGCGATCCAGCCTCCAATCGCTGCTGCTCTTGTAC
TCGGTTGGCCCGGGCGGCGCTGAACTGTGCGGAGCCTAGGCCATGGGGCAGCCTGGGCCT
TCTGCAGTGTGAGGCGCGGGCCTCCCGCTGCTCCGCTGACAGGCTGCGGGCGGGCAG
GCGGGAGGCGTAGTGTGGGTGCGGGTGGCGGCCCCGGCCGCGGCTGGCCGCGGCATC
ATGAACATAGACGTGGAGTTCACATCCGGCACAACCTACCCCTGGAACAAGTTGCCGGCC

FIGURE 1 (CONT'D)

AACGTGAGACAGAGTCTTGGAAATTACAGAGAGAATATGAAAAGCAGGTTGTCCTGTAC
 AGTATCCGCAATCAGTTACGATATAGAAATAACTTAGTTAAACATGTCAAGAAAGATGAA
 CGCAGATACTATGAGGAACTGCTAAAGTACAGCCGAGATCATCTCATGCTGTACCCTTAC
 CATCTATCGGATATTGTATGTTATGTTTGTCTATAAAAGAAAAAATACTAATATTAAATA
 ATTTCTTACGACTCTGAGTCACTCACTTATTTTTCCAATAATTGATATTGTACATTCTTA
 GTGCCATTAGGTATGTATGTATGTAACCTTTTACAGTTTTTTCAGCTGAAAGTTGTAAGTAT
 TTTTTTTTTTTGATCGGGGCTCTTAAATCTCATTTTAATTTCTTTGTTTGAAGTGTAGT
 TATTTTATTTATTTCTATATTAACCATCTAAACCAACTGTAATGACATGTACACTAATAC
 AGAATTGAACATTTGTAGTTGTTGGCAGTGAACCCAGTTGTTGGTGAATTTAAAGCTTAA
 AATATGGGAATGATTTGCTGCTATATTTCTTTGAGAGAGAAAGGAGGAAGAAATAGAAC
 CTAATAGTGATCATGAATTTTAGGGAAAGTACCGAAGAACCATGGGGTCCCCTCTGGTTT
 CTTGTGTTGAATGAGGCAAGGGTAATCATCTGATTCCGAGCTGAAGACCTCTGGTCCTCT
 TAAGGAGGGGAGAGTGCATTTTTAGAGCTTTTAGCAAATGTGAAAAGCTGATGTTTGCGC
 CTTGCTTTGTGAATTTGGCTTTGTTTTACTTATACATTAACCTCATGTAATCTCTTAAATC
 TTACAAGCATTGATCCATTTCAACAAAAGGTAAATTTAAATGCAGACTTTGTTATTTG
 CCAAAGAAGATTGATGAAAATTTACGTCGAATTATTTGCAAATAGTTAATTTCAATTTG
 GCTTTTTACCATGTTCTTCTCTTTCTTTTTCCCGCTTCTTAATGTAATTTAAACCTGG
 CAAACATTCTTTAGAAACCAAGAGGAAAGAAAGAAACAAATATCAAAAAGACATAGAATT
 TAATATTGATACAATTTACCTCTAAATGGATTTGAAGAAATGCAACTTTATATCAAAA
 AATGTCATCTGATTTCTTTGTTTCTTTTTTAAATTATGTAATCAGATGATTTTATGTTT
 TTTTTTCAGGGGAGCGGAATATTGGTTTCTTTTACTTGTGTTTTCAGTTTCTCTGCCA
 TTATGTTTCTTTTTTGTGTTTCTGTTTCAAATACAATTTGTATTTAAGGATTTTAAAA
 TACCAAAGTGAAGTGAAGTACAGTGGATCGTTTTCTGTTAGGATGTTAATATTATACAAT
 GAAATCTATAAAGTGTGTCAATTTGATTATTGACACATATAACATGTTTACAAATAAAC
 TGTGGTATTGATC

Gene 124. >ENST0000311922 cDNA sequence

GCGGCCGCCCCAGCGAGGCTCCGGGAGCCCTTGCTGCGGGGGTCCGGGGACTCGAGCC
 GGCCTCCGCCTCCCGGACGCAAGCCAGCGTGGTCCCCGCGTGCAACGCGAGCGCCGGGG
 AGTGGCTCCTGCTTTGCCCTCGTGGGGGCGGAGCCAAGACCAAGTCTGCAAACTCCATCC
 CGCCGGCTGGAAGAAGTCCGCGGAGCCGGCACCAACCCGAGCGTCTTCCCGCGCGGATC
 CCGGGACTTAAAAAGCCGGGGCCACCCCGGCCAGGACGGGATGCGGGTCCGGTCCGGTGC
 GCTCTGCCATGAGCGGCGCCTCGCAGCCCGCGGCCCCGGCCCTGCTCTTCCAGCCACCC
 GAGGCGTCCCGGCCAAACGCCTGCTGGACGCGGACGACGCGGCGGCTGTGGCGGCCAAGT
 GCCCGCGCCTCTCCGAGTGCTCCAGCCCCCGGACTACCTCAGCCCCCGGCTCGCCCT
 GCAGCCCGCAGCCCCCGCCTGCCGCTCCGGGGGCGGCGGAGGCTCCGGGAGCGCGCCGG
 GGCCAGCCGCATCGCCGACTACCTGCTGCTGCCCTAGCCGAGCGCGAGCATGTGTCCC
 GGGCGCTGTGCATCCACACTGGACGCGAGCTGCGCTGCAAGGTGTTTCCCATTAACACT
 ACCAGGACAAAATCAGGCCTTACATCCAGCTGCCATCGCACAGCAACATTACTGGCATTG
 TGGAAAGTGATCCTTGGGGAAACCAAGGCCTATGTCTTCTTTGAGAAGGACTTTGGGGACA
 TGCACTCCTATGTGCGAAGCCGGAAGAGGCTGCGGGAAGAGGAAGCCGCCCGGCTCTTCA
 AGCAGATTGTCTCCGCCGTGCCCCACTGCCACCAGTCAGCCATCGTGCTGGGGGACCTGA
 AGCTTAGGAAGTTGCTCTTCTCCACGGAGGAGAGAACCAGCTTAGACTAGAAAGTCTAG
 AAGACACACACATAATGAAGGGGAAGATGATGCTTTGTGAGACAAACATGGCTGCCAG
 CCTACGTGAGCCCTGAGATCCTCAACACCACTGGGACCTACTCCGGAAGGCTGCGGACG
 TTTGGAGCCTGGGGGTGATGCTCTACACCTTCTGGTTGGACGATACCCCTTCCATGACT
 CAGACCCAGTGCCCTTTTCTCCAAAATTGGCGTGGACAGTTCTGCATTCTTGAGCACA
 TTTCCCCCAAAGCCAGGTGCCTCATTGCGAGCCTCTTGAGACGGGAGCCCTCCGAGAGAC
 TCACTGCCCCGAGATCCTACTGCACCCCTGGTTTGAAGTCCGTCTTGGAACCCGGGTACA
 TCGACTCAGAAATAGGAACTTCAAGACAGATTGTTCCAGAGTACCAGGAGGACAGTGACA
 TTAGTTCCTTCTTCTGCTAATCCCCAAAACCTCAGAAACCTCATAATTCTTAACACCTGG
 CATTTCCATTTCTAAAGATGGAAGGCCCCCTTTGGCGTGGTACCAACAGATAATGACTGC
 ATCAGGATGAAAGCTGCTGAACTCGGCATGGCGCCTCCTCTTCTCTGTTGGGATGAGTGA
 CTTTATTGATTTGAGCAGCATATGCTGTGATTGGCTGCCCTGCAAATTTGTTTCCCTTAA
 GGAACCTCACCAACTATCTCTGCTGGATTTGGGAGTTCGCGATCTTTTGTGGAGGGCAG

FIGURE 1 (CONT'D)

AGTATGGACATCTTACACCCGGTGGTCAAGTGTGTAATAAACTTGAGCATTCTGAATGGGA
GAAAAAGCAAATCGCACAATGACATATTTTGAGTAATAACCGTATTTTTCACAGGGTGAC
AAATTGGGCCAATAAATCTGCCATCTTTGAACTCATCTTTGGTGGCTAGACTGCTACGGC
AGCTTCTCTGATGGGAAAGTTCTTTTTTTGGCTTAACACTCACCTTTCTTCACACTCAC
ATTTACCAATGACTCTGCTCCGTTTTTTGGAGCAGACTGTTTTAAGTTGCTCAGGAGCCTG
ATGGAACCATGAACCGAGACTCTTCTCTGTTTCTGCGCAAGACCTCATCTGCACTAATGC
CTTCTCCCTGACCTTGACACTTCCCCCTTTAGCTATAAAAGCACTTACCAGCCGAACGTG
GAACAGTATCACAAAAGATTCCATCTCCCAACGATTTTCAAGACTCTGAGCTCAGAGAGAC
TCCAGATTTTAAAAAATAATTTGAGTGCTTGGAACTATTAGCTTTTTTAAGTTCTTCCA
AATATGTTAGTACCTACCTTTTACTTTTTCCCCAAGACCATCTCAGGGTGGAGCATTCTG
TCTAAGAGAAGAAAGATAAGGAGGCTCCACCCACCTCTCCCAAGAGCAGACATTAAACA
TCTTTGTGCTTTGAAGAGAGTGAAATTTTGGATAGTCTTGTGATTCTCAGACTAACTTCCA
GAATTATACTTTAACCCCTCCAGATATGGTCCGCTTTGGCATTGTGTGTACATCTGCA
GTTTTGTCATGGTGGGTTGTTAATATTTCAAATGTGTGGTTTATGAATACGTCTGTATAAT
CGGCTTCTGGAGTGAAACAGCAAACCCCAAATCTTCAAAGTTGGAAGGAACCTTTAAAAAT
CATCCGGTCCAATCTCTTTCCTCTTTCTGCCACCTCCCAAGGCAGAAATCCCCTCTTCAG
CTTCTTTTGTAGGTGGGAATCCAGCCTCTGTTAGATATGTCCAGAGATGGAACTCACTC
CCCTACAAAAGATGGAGCTTAATGGAGAAATTGCACTTTTATTAAAAAACAATTCAGA
TGAAATATCAGTAACTGTCTTGGACAGTGCTGAAATCAGGTGGTTAAACGGGTAAACAAA
ATATACTGTATTTTGGAGAAATGGCACAAAAACAGGCAGTCATCTTTAAGGGCTATGCCTA
GGCAAATACTAACATGCATTGTGAGAATGCCGTGTATACCTCACGTAAGTGTGTAATTTG
TACATATATTTTACCTTTTATACCTATGTTTCGATTTTGTGTTTGTGTTTGTGTTCTGGC
TTTGAGGCTTGTGTTTGTGTTCTGTGTCTGTCTGAATAACCTGCGTGTCTAAAACCAAGTG
AAATGTGAATGATTATTGGCAATATTACCTTGACAGAATCATGGGACTTTGAGAAGAGGG
AGGACAGAGGCCTCTGTGCGACTAACGCTCTCGTGGTTGCTCGACTGTTGTATCTGTGAT
ACATTATCCGACTAAGGACTCTGGGCTGGCAGGGCCTTCTGCCGGGAAAGCTAGAAACAC
TAGGTTCTTCTGTACATACGTGTATATATGTGAACAGTGAGATGGCCGTTTCTGACTTG
TAGAGAAATTTTAAATAAACCTGGTTTCGT

Gene 125. >ENST00000325963 cDNA sequence

AGAAATTCTTCAGAAGGAAAACAGCCCGTGATCTTCTACCAATAAAGCCAGTGGAAATTG
CCATAGAGGCGTGGTGGGTGGTGCAGGCTGGCTATATCACAGAAGATGACATCAAGATAT
GCACTTTGCCTGAGAAATGCGCTGTTGATAAGATCATCGATTTCAGGCCCTCAACTCTCTG
GATCACTAGATTACAATGTAGTACATAGTTTGTATAACAAAGGATTTATTTATCTGGATG
TACCAATATCTGATGACAGTTGTATAGCAGTTCCACCTCTTGAAGGTTTTGTAATGAATC
GAGTGCAAGGTGATTATTTTGAACCTCTACTCTATAAGATATTTGTTTCAATAGATGAGC
ACACAAATGTTGCAGAGCTTGCAAATGTCTTGAGATTGACTTATCCCTGGTTAAGAATG
CTGTTTCAATGTATTGCCGATTGGGCTTTGCCCATAGAAGGGACAAGTAATTAATTTGG
ATCAACTTCATTTCATCATGGAAGAATGTTCCATCCGTAAACAGATTAAAGAGTACCTTAG
ATCCACAGAAGATGCTCTTGTCTATGGGATGGAGGGGAAAGTAGGAGTCTGTACAAGAAG
CTTCATCGGCAACTGACACTGATACAAATAGTCAAGAAGATCCAGCTGACACAGCCAGTG
TAAGCAGCCTGAGTCTGTCTACAGGACACACGAAGCGCATCGCATTCCTGTTTGAATCCA
CTCTTACTGCCTTCTTAATGATGGGAAATCTTTACCAAACCTTGAAAAGTCATGCAGTCA
CAATGTTTGAAGTAGGCAAACTCTCAGATGAGTCTCTGGACAGCTTTCTTATAGAACTAG
AAAAGGTTTCAGAGCACTGGTGAAGGAGAAGCACAGAGATATTTTGATCATGCACTTACTC
TGAGAAACACAATACTGTTTCTGCGTCATAACAAAGATCTAGTTGCGCAAACTGCACAGC
CAGACCAACCCAATTATGGTTTTCTCTGGATCTCTTACGCTGTGAAAGCCTTCTTGGTT
TGGACCTGCAACTTGACAGAGTTCTAAAACAAAATTAACGCTGCTTGTGTTTCCATGG
CTCCCTCACCAATGAAATCCGGCCTGTGACAGCTGCACCCCTCAGCATATTGGACCAG
CTATCCCAGAAGTCAGCTCTGTCTGGTTTAACTGTACATTTATCATGTCACTGGACAAG
GACCACCATCCCTTTTATTGTCCAAAGGTACAAGACTTCGAAAACCTGCCAGATATATTTT
AGAGTTATGATCGATTGCTAATAACATCTTGGGGTCATGATCCTGGAGTAGTTCTTACCT
CAAATGTGCTCACGATGTTGAATGATGCTTTAAACACATTCTGCAGTTTTAATTTCAGGGG
ATGGTCTGCATGGGATAGGAGAACTGTCCATGTCCATTTCCATTTGATGAAACAGAAC
TACAAGGAGAGTTCACTCGTGTCAATATGGGTGTTTATAAAGCATTGCAGATACTAAGGA

FIGURE 1 (CONT'D)

ACAGAGTGGACTTACAGCATCTCTGTGGATATGTCACCATGTTGAATGCTTCCAGCCAAC
TTGCAGATAGAAAACCTCAGTGATGCTTCTGATGAGAGAGGAGAACCTGATTTGGCTTCTG
GCTCAGATGTAAATGGGAGTACAGAGTCATTTGAAATGGTCATTGAGGAAGCAACTATAG
ATTACAGCAACAAAGCAAACCTCTGGTGCCACAACAGAAGCAGATTGGGTTCTCTCGAGC
TGTGCTTTTGAATTCCAAGTTCAGTTCCGAATTAAACCGGAAAGTTTGTAGGAAAATTG
CTGCACATGGCCTTTGCAGAAAAGAGAGCCCTTCAAAACCTCTTACATTCCAGTAGAAAAC
TCTCTCTGCAAGTCTTAACTTTGTTCACTCATTCCAGGAAGGTGCTTCAATATTGGATA
TTCACACAGAGCCCAGTTTTTCAAGTTTGCTTTTACAGTCATCGTGTGCTGACATGGGTG
TTCCACTTCCTGCAAAAACCTTAATATTTAAAGATGGTGTCTTATCAGAATGGAGTGGAC
GGTCACCTTCTCACTTCTTATTGCTAATCTCCATTTGCAATAATTTGGTTACACCATTT
GTTGCTCACACTTTCTGCCTTTTTTTCTTTCTTAACGTTAGCTTTATAGTGTGAGCCACTA
AAAAGCATCCTGCTGCTGCAGTGCAATTCTTGCTTAACTAATATTTAAAAGTTGGGG

Gene 126. >ENST00000328599 cDNA sequence

TTTCCGGCACCGGCATGGCCGGGTGAGCTGCAGGCTACCTTATTTAAGACCGGGAATTTA
GTCAGCCTGGTGAGCCGACTCTGAGGAGATGGAGTATCGCTGAGGTGATGAGAGAGAATG
TGGTTGTTAGCAACATGGAGAGAGAAAGTGGGAAGCCCGTGGCTGTTGTGCGAGTTGTGA
CTGAGCCTTGGTTTACCCAGCGATACAGAGAATATCTCCAGAGGCAGAAAACCTTTTGATA
CACAGCACCGTGTGGAAAAGATGCCGGATGGCTCGGTGGCGCTACCGGTGCTGGGAGAGA
CGCTTCAGAGCAGCACCTGCAGGAGCTGAGGAATCGTGTTGCCAGGCAGTCCCTGTA
TGCTCACGCAGCTCCCGGATCCTGTTCTTTCGAAGAGGGGCCAGGGTTGTTTACCTGCCC
AAAAATTGTGTCTTGAGGTGAGTGCCTGGGTGGAGGGTCCGGGAGTCAAGTGGTCAGCCG
AGTTGGAGGCTGATTTGCCCCGATCATGGCAAACCGCATGGTAATCTCTTGTTGCTGAGTG
AAGACTGTTTTCCAAGCCAAGCAGTGGAAAAATCTGGGACCGGAACCTCTGGGAGACCGTTG
CCTTGGCACTTGGCGTCCAGCGTTTGGCAAAACGAGGGCGGGTATCACCGGATGGTACTC
GAACTCCAGCAGTGACACTGCTGCTGGGTGACCATGGCTGGGTAGAGCATGTGGATAATG
GTATCCGTTATAAGTTTGAAGTGCACCCAGTGTATGTTCTCCTTTGGAAAACATCACTGAGA
AGCTTCGAGTGGCATCGTTGTCTGTGCTGGAGAAGTGTGGTGGATCTCTATGCAGGGA
TTGGTTATTTTACATTGCTTTTCTAGTTTATGCTGGTGTGCTGCTTCTGTCATGCTTGTG
AGTGGAAATCCCATGCTGTAGTTGCTCTGAGAAATAACCTTGAGATCAATGGAGTAGCAG
ATCGGTGCCAAATACACTTTGGAGATAACAGAAAACCTGAAGCTCTCAAATATTGCAGATA
GGGTGATCCTGGGGCTGATTTCCAGCTCTGAAGAAGGCTGGCCCATTGCCTGCCAAGTGT
TAAGGCAGGATGCTGGAGGCATTTTGCATATCACCAAAATGTGGAATCTTTCCAGGGA
AGAATCTTCAGGCTCTTGGAGTCAGCAAAGTAGAGAAAGAGCATTGGCTGTATCCTCAGC
AAATTACCACCAACCAATGGAAAAATGGAGCTACCAGGGATTCTAGGGGAAAAATGCTGT
CACCAGCCACCAAGCCAGAGTGGCAAAGGTGGGCAGAATCTGCAGAAAACCTGAATCGCCA
CTCTTCTTCAGCAGGTGCATGGGAAACCATGGAAGACACAAATTTCTGCACATCCAACCAG
TGAAATCCTATGCTCCCATGTGGATCACATAGTCTGGATCTGGAATGCTGCCCCCTGTC
CTTCAGTTGGCTAGAGGAGGTAGATCCTGGGACACATGGGATCCACGTGCGAGTGGCCCT
TAAATGTATCAGTTCAGTCCAGGTTGTATCCCTTTTGTCCCCTGGTGATCAGTTTTTTTT
CATATTTTATAGCCCTGAAAGCAGGCTCTAGATCAATTCAAATTATTTCAATTTGTCTTTC
ATTGATAACAGAAAATGAAATACCTGTTTGGGAGAAGCAGCATGGCCCATTGAAATGAGG
CTCATCTGTGCAATTATGAATTCCAAATTCTGACCTCAGTTCTGGAATTGAAGTTTCAGT
ATGTTTTTGGCCTCGGGTTTCTGTTATTTGCAAAATGAGAGTTTCTTTGAACTGTCTCACGT
GACTATTAAGCAACTATACACAGGACATCGGTTATTTTAGAGTGAAAGACACAGTGTCTT
TTCCAAATTGCTCTGGCTACCATATAGAAAATTGACTGAAGGAGGGCCAAGATGGAAACA
GAGAGACCAGTGAGGAGGCTTCTGTGGTTGTCCAGGTCTGAGGTGATGGTAACTTGGACT
CGGATGGTGGTAATGGGAGGTAGATTGATATGATAAATAAAATTGACAGACC

Gene 127. >ENST00000297632 cDNA sequence

GGGGTAGCGGCGGCGGCGGCGGCTGCGGCTCGGGAGCGCGGCTGCTTTGAGGGCTCGGGA
ACCTTACAGAGTGGGGACGTGGGGAGGCTAGAGGGTGAGAAAGCTGGCGGGAGAGTAGGG
CGGCGCTGGAGGAGGGCGGTGCGTGGCTGACTCATCCTCTGGAAGATCAGACTGACAGAG
ACACACACTAGCCCCCCCCCGCCCCGCGCCGCTCCTCCTCAGCCGGGAGGCGCCCCGCC
CGCACCGACCGCCCCGCCCTCTCCGGGCGCTGTCCGGGCCCGCGCGTCTCAGAGAAAGTTT
TTCCCATCGGAGGGGCGGGAGCCGCCGCGGGCCTTTTGGAAAGGAAGTGGGGACGGAACA

FIGURE 1 (CONT'D)

GGAGGCGAGAGCCGCGCGGGCCCGCGGAGTGCATGGTGCCCGGCGCCTCGGCTGCCTGGC
 AGGAGGACCTCGGGGCGGGGTGAGCTGAGCCAGCTCCTTCTCGCCTCAGCCGCGCCAG
 AAACCGCCTTGCCGGAAGGCGCGGGGGTCCAGCTCCTCAGCTCGCCATGTCCCGGCTG
 CTGCCGCTGCTGAGGAGCCGGACCGCGCGCAGCCTGAGGCGGGGCGGCGCGCGCCG
 GCGCCCCGCGCGCGTCTGGTGCTGCTGCGGGCGGGGGCTGCTGGCGCTCGCGCCCCC
 GGCGGCTTGCCGGGCGGCCCCAGGCGGCTGGGCACGCACCCCAAGAAGGAGCCCATGGAG
 GCGCTGAACACGGCGCAGGGCGCGCGGACTTCATCTACAGCCTGCACTCCACGGAGAGG
 AGCTGCCTGCTCAAAGAGCTGCACCGCTTCGAGTCTATTGCCATTGCCAAGAAAAATTG
 GAAGCTCCACCACCCACCCAGGACAGCTGAGATATGTATTTCATCCACAATGCGATACCT
 TTCATAGGGTTTTGGCTTTTTGGATAATGCAATTATGATTGTTGCTGGAACCCATATTGAA
 ATGTCTATTGGAATTATTTTGGGAATTTCAACTATGGCAGCTGCTGCTTTGGGAAATCTT
 GTGTGAGATCTAGCTGGACTTGGACTTGCAGGCTACGTTGAAGCATTGGCTTCAGGTTA
 GGCTGTCAATTCCTGATCTCACACCAAAGCAAGTTGACATGTGGCAAACACGTCTTAGT
 ACACATTTGGGCAAAGCTGTTGGGGTGACTATTGGCTGCATTCTAGGAATGTTTCCTTTA
 ATTTTCTTTGGAGGAGGTGAAGAAGATGAAAACTGGAAACGAAAAGTTAATCCTCTTAG
 AATACCTATAAAAAGATGTAACTAATGTACCTCAGTAATTAAATATGCTGTCAACAT
 TTAGGAATTAAGACAGTAACAGTATAGATATGGGATCAAATAATTTAGCATGTATTATGG
 AAAACACTAATCTTATTGTGGCTTGATCTTCTTAGGACATCTTTTTTAAAAGCTGTTTAG
 TATCATTTTTGTGTATATTGTTGAAATGCTTTTTTTCATCAATAGCAGTCAACATTTTATCCT
 TTCTTTTTTATATTATAATGTTATTTAAGTGTCAATTGATGTACTGTATTGACTTGGGGTT
 TGCTTATTTGTTACTTAACATGTGTACATGCATGAAAGCATTTTTCGTTGTTCCCTGATA
 GTTACATTTCAACCTTGGGATTTTTTCCAAATTACTTAAGATGTTTAATGTGAGTTAAAGA
 TTTTTTACCCTCTTTTTTGGGAACATCAATTTTGTACTGTTATGAGTAAACATTTATAA
 TAATATAATTTAGTCATTTCTTAACTGTACATCTATTGAAAATGGATATAGATACAGG
 TTTTAAGTATTTTAAGTATATATTACTTATTTTAATTTTCTGACTTTACTATTTTAAGG
 CCAGAGGGTTAATCACAAAGAGCAATTATGTGGTCTCCCTGCTACATGAAACCGTGTATA
 CTAACAAGCGTACAATTTTTAGTTGATTTTTTTTAACTTTTAGTTTCCAGTTTTGAAT
 AATTACATGGTGGATTCTGACTTTTGGGGGAAGCAAATGATTATTTTAGAGTCTTTGAA
 ATGGGGATTGTGGAATTAGATTGAACTAAGGGATTTAACATGATGCTTGGAAATTAAGAG
 ACTAAAGCTTTTTTTAAAAAAGGTGGAAAATAGGAACTGTCAAGAAGGTTTATGGTATA
 AATGATGAAGTTGAAGTGATGTTTGAAGATTAATGAGATACAATTTATATTATTTGGTA
 AGGTTTTTTTTTTTTCCCTCCAAAGATGTCATCTTCTCATCTGAATGGAATAAGTCTGAAT
 ACCCATATTCTACTCCTAATCTCATTATATCTTATTTAGTGAATTTTATTTATGAATA
 ATTTCTGTTGAAGTGAAAAGTAGATATTTAATATTTTGCTTTTTTGCTACATAGTCTACT
 CAAAAATTACATGAGGAGAAATCCTTTTTCCCTTTGTTTTCTTTTTCTTTTGTGG
 TATTTAAAGCATATTTTAGGTTGAAGTTACTTATTTCTAGTCTTGTACTTCTGGCTTAAG
 TATAACCATGTAAGAATTATAAATTTTAGTTTTCTGAACCCCTTAACTTTTTTAGCATGT
 GGTCTGTTACACATGCTAAAAAATTAGTCTTACTTGTAAACAGCGTAATTAAACACATCAT
 GGAGGAGAGAAACTTAAATTTAAATAGTATTTTGGCTTTTGAAGTTATTTGTGTTGCTA
 AATAGATGCAGAGGTTTTACAGCAGTTTATTTTAAAGGTTTTATTTATACATAATTACTTT
 GAACTCTTCAGAGTAGATATTTTTTCAAGGCAGTTTGTCAATAATCTCTCATGCGCT
 TCAGAATGCATAAGTGCCATCCTTTAATCATAGACTTTGAGGAGAGAAAGCATAAAAATA
 TAGCATATAATCTAAAAATAATATATAACATGCACAAATAATGTGACATTCTTACTGAA
 TCAAATCATGATTCTAGAACTTGAGATCTTAAATAGAATTTCGGTTTGTATCTTCCATAT
 AATAACCACACACAGATAACCACACAAAAAATCCTTTGTAAAATTTCTGATTGATAGGAT
 TAGAGTGCTTAAATTTTTGGGGGGGAAGGGTGGGGTAAAGTGTAAGTGCTTTCTTTTGT
 CCCTAACTTGTGTATTGATGGCAGTCCACTCTGTTTTCTAAAAATGTATTTTACTGTGGT
 GCTTAACTTCTTATTAATTAATCCCCTATCAGAAACCTTG
 Gene 128. >ENST00000242558 cDNA sequence
 GCCCTCAGCATCGGACCAGAGTACTTGGTATCTGGATGAATCGACACTCACTGACAAACAT
 CAAAAGACACTGCACAAGTTCTGTGGCCCCCTCCCCTGTGGTCTTCAGTGATGTGAACTC
 CATGTATCTGTCTTCCACGGAGCCGCCAGCCGCTGCTGAATGGGCATGTCTGCTGCGCCC
 TCTGAGGGGCCGTGAGCCAGAGGGCGTCTGGAACCTGCTAAGCATTGTGCGGGAGATGTT
 CAAGCGGAGGGACAGCAATGCTGCCCCCTTGTGGAAATCCTCACTGACCAGTGCCTCAC

FIGURE 1 (CONT'D)

CTATGAACAGATAACAGGTTGGTGGTATAGCGTACGTACCTCAGCCTCACACAGCAGTGCC
CAGTGGGCACACGGGCCGTAGCAACGGGCAGTCAGAGGTGGCAGCCCATGCCTGTGCCAG
CATGTGTGACGAGATGGTCACACTGTGGAGGCTGGCCGTGCTGGACCCTGCACTCAGCCCC
CCAGCGGCGCCGGGAAGTGTGTACGCAGCTGCGGCAGTGGCAACTGAAGGTGATTGAGAA
CGTCAAGCGGGGCCAACACAAGAAGACGCTGGAGCGGCTCTTCCCGGCTTCCGGCCAGC
GGTGGAGGCCTGCTACTTCAACTGGGAAGAGGCCTACCCACTTCCTGGTGTACCTACAG
CGGCACTGACAGGAAGCTGGCACTGTGCTGGGCCCCGGGCCCTGCCCTCTCGGCCAGGTGC
CTCCCGCTCTGGGGGCTGGAGGAATCCCGGGACCGGCCCCGACCCCTTCCTACTGAGCC
AGCTGTGCGGCCCAAGGAGCCTGGGACCAAGCGAAAGGGCTTGGGTGAGGGGGTCCCCTC
ATCAGCGGGGTCCCCGCGCCTCTCAGCTGAAGGGGGAGATAAAGCTCTACATAAGAT
GGGTCCAGGTGGGGGCAAAGCCAAGGCACTGGGTGGGGCTGGCAGTGGGAGCAAGGGCTC
AGCAGGTGGCGGAAGCAAGCGACGGCTGAGCAGCGAAGACAGCTCCCTGGAGCCAGACCT
GGCCGAGATGAGCCTGGATGACAGCAGCCTGGCCCTGGGCGCAGAGGCCAGCACCTTCGG
GGGATTCCCTGAGAGCCCTCCACCTGTCTCTCCACGGTGGCTCCGAGGCCCTTCCAC
TTTCCTTCCTGAGCCCCCAGATACTTATGAAGAAGATGGTGGTGTGTACTTCTCGGAAGG
GCCTGAGCCTCCACAGCCTCTGTTGGCCCCCTGGCCTACTGCCTGGGGATGTCTGTAC
CCAGGACGACCTCCCTTCTACAGATGAGAGTGGCAATGGGCTTCCAAAACCAAAGAGGC
AGCCCCTGCACTTGGAGAGGAGGATGATGACTACCAGGCGTACTATCTGAATGCCAGGA
TGGGGCTGGGGGCGAGGAAGAGAAGGCCGAGGGCGGGGCTGGGGAGGAGCACGACCTGTT
TGCTGGGCTGAAGCCAAGGAGAGTGCATGGAGGTACTGTTTGCTGTGCTGA
GGCCTGTCATGCGCATGGCTATAGCAGTGAGGCCTCCCGTCTCACTGTGGAGCTTGCCCA
GGATCTGCTAGCCAACCCACCCGACCTCAAGGGCAAGAAGAACAAAGGTATCCACGAGCCG
TCAGACCTGGGTGGCTACCAACACCTGAGCAAGGCGGCCTTCCTGTTGACAGTGCTAAG
TGAGCGTCCAGAGCACCAACCTGGCCTTCCGAGTTGGCATGTTTGCCTTGAGCTACA
GAGGCCTCCAGCTTCTACCAAGGCCTTGGAGGTGAAGCTGGCATAACAGGAGTCTGAGGT
GGCTGCCCTGCTCAAGAAGATCCCTCTGGGTCCAAGTGAGATGAGTACCATGCGGTGCCG
GGCAGAGGAACCTTCGGGAGGGGACACTCTGTGACTATCGGCCTGTGTTGCTCTCATGCT
GGCCAGTTTTCATCTTTGACGTTCTCTGTGCTCCAGGTTCCCGGCCCCCAAGTCGCAACTG
GAACAGCGAGACACCTGGGGATGAGGAGCTTGGATTGTAAGCAGCAGTTGCTGCCTTGGG
CATGAAGACAACAGTGAGCGAGGCAGAACATCCCTCTTATGTGAAGGCACACGTCGGGA
GAAGGGTGACCTGGCATTAGCACTAATGATCACTTACAAGGACGACCAGGCCAAGCTTAA
GAAGATCTTAGACAAACTCTTGGACCGAGAGAGCCAGACACATAAGCCACAGACGCTGAG
TTCTTTCTACTCATCTAGCCGCCCAACCAACAGCCAGCCAGAGGTCTCCTTCAAAGCACGG
GGGCCCATCTGCCCCAGGGGCCCTGCAACCACTGACCTCAGGCTCTGCAGGGCCTGCTCA
ACCAGGGAGTGTGGCAGGGGCTGGGCCAGGCCCCACTGAGGGCTTCAAGAGAAGAATGT
GCCTGAGAGTTCCCCACATTCCCCCTGTGAGGGTCTTCCATCTGAGGCAGCTTTGACCCCC
AAGGCCAGAAGGGAAGGTTCTAGCCGCTTGGCACTTGGCAGTCGTGGAGGCTATAATGG
ACGGGGATGGGGGTCCCCAGGACGGCCTAAGAAGAAGCACACAGGCATGGCCAGCATTGA
CAGCAGTGCCCTGAAACAACATCGGATAGTTCCCCCACCTTAAGCCGGAGACCACTTCG
AGGGGGCTGGGCCCCCACCTCCTGGGGTCCAGGTCAGGACAGTGACAGCATTAGCAGCTC
TTCTTCGGACTCCCTGGGCTCCTCATCTCCAGTGGAAGTCGCCGGGCCAGTGCCAGTGG
AGGAGCCCCGGGCGAAGACTGTTGAAGTTGGCAGGTACAAGGGCCGCCCCGAGAGTCA
TGCCCCCTCATGTACCCAATCAGCCATCAGAGGCAGCTGCACACTTCTACTTCGAGCTGGC
GAAGACAGTGCTGATCAAGGCAGGGGGCAACAGCAGCACTTCATTTTCAACATCCATC
TTCCTCAGGGGGCCACAGGGTCTCACCGCAACCTGCACCTTTGCGCCTTCGAGATTGG
GCTTTATGCCCTTGGCCTGCACAACCTTTGTTTCTCCCAACTGGCTCTCACGTACTTATTC
TTCCACGTTTCTGGATTACAGGCCAGGCCATGGAGATAGGCAGCGCAGCCCTGACTAT
ACTGGTAGAATGCTGGGATGGGCACCTGACACCCCTGAGGTTGCATCCCTGGCTGACAG
GGCATCACGGGCAAGAGACTCCAATATGGTGAGGGCGGCAGCAGAGCTGGCCCTGAGCTG
CCTGCCTCACGCCCATGCATTGAACCTTAATGAGATCCAGCGGGCCCTGGTGAGTGCAA
GGAACAGGACAACCTGATGTTGGAGAAGGCCTGCATGGCAGTGGAAGAGGCAGCTAAGGG
TGGGGGCGTGACCTGAAGTGTTGTTTGGAGGTGCTCACCAGTGGTTCTGGCTGTATGA
GCAAACCTGCAGGTGGCTCATCCACAGCCCCGTGAAGGGGCTACAAGCTGTAGTGCCAGTGG
GATCAGGGCAGGTGGGGAAGCTGGGCGGGGTATGCCTGAGGGTAGAGGGGGCCAGGGAC

FIGURE 1 (CONT'D)

TGAGCCGGTTACAGTGGCAGCGGCAGCAGTGACAGCAGCAGCCACAGTGGTGCCCGTCAT
ATCGGTGGGGTCTAGTTTATACCCGGGTCCAGGACTGGGGCATGGCCACTCCCCTGGCCT
GCACCCCTACACTGCTCTACAGCCCCACCTGCCCTGTAGCCCTCAGTATCTCACTCACCC
AGCTCACCTGCCCACCCCATGCCTCACATGCCCCGGCCTGCCGTCTTCCCTGTGCCAG
CTCTGCATACCCACAGGTGAGACCAGTGTTCTGCTGGGGGGTAAGGCATGGGAAAATACT
GGGAATTCATAGGGGGTTGGAGTGGGTACTCTGGGAGTATAATTGGTCAGTCGGAGAGTC
CTGGTGAGGTGGTGGGAGTCTGGGGGACCCAGCCCACTAAAATAAGAAATGACGGCCGG
GCATGGTGGCTCATGCCTGTAATCCCAGCACTTTGAGAGGCCGATGTGGGTGGATCACTT
GAGGTGAGGAGTTGAGACCAGCCTGGCCAACATGGGGAAACCCCGTCTCTACTAAAAAT
TAGCTGAGTGACGCCTGTAATCCCAGCTTCTTGGGAGGCTGAGATGGGAATCACTTGAA
CCTGGGAGGCAGAGGTTGCAGTGAGCCGATATCGTGCCACTGCACTCCAGCCTGGAGGAC
AGAGCGAGACTCTATCT

Gene 129. >ENST00000310153 cDNA sequence

CGTACTATCTGAATGCCCAGGATGGGGCTGGGGGCGAGGAAGAGAAGGCCGAGGGCGGGG
CTGGGGAGGAGCACGACCTGTTTGTCTGGGCTGAAGCCACTGGAAACAGGAGAGTCGCATGG
AGGTACTGTTTGCCTGTGCTGAGGCCCTGCATGCGCATGGCTATAGCAGTGAGGCCTCCC
GTCTCACTGTGGAGCTTGCCAGGATCTGCTAGCCAACCCACCCGACCTCAAGGTAGAGC
CGCCCCCTGCCAAGGGCAAGAAGAAACAGGTATCCACGAGCCGTGAGACCTGGGTGGCTA
CCAACACCCCTGAGCAAGGCGGCCTTCTGTTGACAGTGCTAAGTGAGCGTCCAGAGCACC
ACAACCTGGCCTTCCGAGTTGGCATGTTTGCCTTGGAGCTACAGAGGCCTCCAGCTTCTA
CCAAGGCCTTGGAGGTGAAGCTGGCATAACAGGAGTCTGAGGTGGCTGCCCTGCTCAAGA
AGATCCCTCTGGGTCCAAGTGAGATGAGTACCATGCGGTGCCGGGCAGAGGAACCTTCGGG
AGGGGACACTCTGTGACTATCGGCCTGTGTTGCCTCTCATGCTGGCCAGTTTCATCTTTG
ACGTTCTCTGTGCTCCAGTGTTTTCTCCACAGGTTCCCGGCCCCAAGTCGCAACTGGA
ACAGCGAGACACCTGGGGATGAGGAGCTTGGATTTGAAGCAGCAGTTGCTGCTTGGGCA
TGAAGACAACAGTGAGCGAGGCAGAACATCCCCCTCTTATGTGAAGGCACACGTCGGGAGA
AGGGTGACCTGGCATTAGCACTAATGATCACTTACAAGGACGACCAGGCCAAGCTTAAGA
AGATCTTAGACAAACTCTTGGACCGAGAGAGCCAGACACATAAGCCACAGACGCTGAGTT
CTTTCTACTCATCTAGCCGCCCAACACAGCCAGCCAGAGGTCTCCTTCAAAGCACGGGG
GCCCATCTGCCCCAGGGGCCCTGCAACCACTGACCTCAGGCTCTGAGGGCCTGCTCAAC
CAGGGAGTGTGGCAGGGGCTGGGCCAGGCCCACTGAGGGCTTCAAGAGAAGAATGTGC
CTGAGAGTTCCCCACATTTCCCCCTGTGAGGGTCTTCCATCTGAGGCAGCTTTGACCCCAA
GGCCAGAAGGGAAGGTTTCTAGCCGCTTGGCACTTGGCAGTCTGAGGAGCTATAATGGAC
GGGGATGGGGGTCCCCAGGACGGCCTAAGAAGAAGCACACAGGCATGGCCAGCATTGACA
GCAGTGCCCTGAAACAACATCGGATAGTTCCCCCACCTTAAGCCGGAGACCACTTCGAG
GGGGCTGGGCCCCACCTCCTGGGGTTCGAGGTGAGGACAGTGACAGCATTAGCAGCTCTT
CTTCCGACTCCCTGGGCTCCTCATCTCCAGTGGAAGTCGCCGGGCCAGTGCCAGTGGAG
GAGCCCCGGGCGAAGACTGTTGAAGTTGGCAGGTACAAGGGCCGCCGCCCGAGAGTCATG
CCCCTCATGTACCCAATCAGCCATCAGAGGCAGCTGCACACTTCTACTTCGAGCTGGCGA
AGACAGTGCTGATCAAGGCAGGGGGCAACAGCAGCACTTCCATTTTCAACATCCATCTT
CCTCAGGGGGCCACCAGGGTCTCACCGCAACCTGCACCTTTGCGCCTTCGAGATTGGGC
TTTATGCCCTTGGCCTGCACAACCTTTGTTTCTCCCAACTGGCTCTCACGTACTTATTCTT
CCCACGTTTCTGGATTACAGGCCAGGCCATGGAGATAGGCAGCGCAGCCCTGACTATAC
TGGTAGAATGCTGGGATGGGCACCTGACACCCCTGAGGTTGCATCCCTGGCTGACAGGG
CATCACGGGCAAGAGACTCCAATATGGTGAGGGCGGCAGCAGAGCTGGCCCTGAGCTGCC
TGCTCAGCCCCATGCATTGAACCTAATGAGATCCAGCGGGCCCTGGTGAGTGCAAGG
AACAGGACAACCTGATGTTGGAGAAGGCCTGCATGGCAGTGGAAGAGGCAGCTAAGGGTG
GGGGCGTGTAACCTGAAGTGTTGTTTGGAGTTGCTCACCAGTGGTTCTGGCTGTATGAGC
AAACTGCAGGTGGCTCATCCACAGCCCGTGAAGGGGCTACAAGCTGTAGTGCCAGTGGGA
TCAGGGCAGGTGGGGAAGCTGGGCGGGGTATGCTGAGGGTAGAGGGGGCCAGGGACTG
AGCCGGTTACAGTGGCAGCGGCAGCAGTGACAGCAGCAGCCACAGTGGTGCCCGTCATAT
CGGTGGGGTCTAGTTTATACCCGGGTCCAGGACTGGGGCATGGCCACTCCCCTGGCCTGC
ACCCCTACACTGCTCTACAGCCCCACCTGCCCTGTAGCCCTCAGTATCTCACTCACCCAG
CTCACCTGCCACCCCATGCCTCACATGCCCCGGCCTGCCGTCTTCCCTGTGCCAGCT

FIGURE 1 (CONT'D)

CTGCATACCCACAGGGTGTGCATCCTGCATTCTAGGGGCTCAGTACCCTTATTAGTGA
CTCCTCCCTCACTTGCTGCCACTGCTGTGTCTTTCCCGTTCCTTCCATGGCACCCATCA
CAGTACATCCCTACCACACAGAGCCAGGGCTTCCACTGCCACCAGTGTGGCCTGTGAGT
TGTGGGGCCAGGGAACAGTGAGCAGTGTCCATCCAGCATCCACGTTTCCAGCCATCCAAG
GTGCCTCACTGCCTGCCCTGACCAACAGCCCAGCCCTCTGGTGAGCGGAGGTTTTCCAC
CGCCCGAGGAGGAGACACACAGTCAGCCAGTCAATCCCCACAGCCTGCACCACCTGCATG
CTGCCTACCGTGTGGAATGCTGGCACTGGAGATGCTGGGTGCGCGGGCACACAACGATC
ACCCCAACAATTCTCCGCTCCCCCCCCCTACACTGATGATGTCAAATGGTTGCTGGGGC
TGGCAGCAAAGCTGGGAGTGAACACGTGCACCAGTTCTGTGTGGGGGAGCCAAGGGGG
TGCTGAGCCCGTTTGTGCTGCAGGAGATCGTCATGGAGACGCTGCAGCGGCTGAGTCCCG
CTCATGCCCACAACCACTGCGTGCCCCGGCCTTCCACCAACTGGTGAGCGCTGCCAGC
AGGCATACATGCAGTACATCCACCACCGCTTGATTACCTGACTCCTGCGGACTACGACG
ACTTTGTGAATGCGATCCGGAGTGCCCGCAGCGCCTTCTGCCTGACGCCCATGGGCATGA
TGCAGTTCAACGACATCCTACAGAACCTCAAGCGCAGCAAACAGACCAAGGAGCTGTGGC
AGCGGGTCTCACTCGAGATGGCCACCTTCTCCCCCTGAGTCTTTCACCTTAGGGTCCTA
TACAGGGACCCAGGCCTGTGGCTATGGGGGCCCCCTCACACAGGGGGAGTGAACTTGGCT
GGACAGATCATCCTCACTCAGTTCCCTGGTAGCACAGACTGACAGCTGCTCTTGGGCTAT
AGCTTGGGGCCAAGATGTCTCACACCCTAGAAGCCTAGGGCTGGGGGAGACAGCCCTGTC
TGGGAGGGGGCGTTGGGTGGCCTCTGGTATTTATTTGGCATTATATAAATATATAAACTCC
TTTTTTACTCT

Gene 130. >ENST00000325890 cDNA sequence

GGGGCTCAGTACCCTTATTAGTGAAGTCTCCTCCCTCACTTGCTGCCACTGCTGTGTCTTTC
CCCGTTCCTTCCATGGCACCCATCACAGTACATCCCTACCACACAGAGCCAGGGCTTCCA
CTGCCCACCAGTGTGGCCTTGAGCAGTGTCCATCCAGCATCCACGTTTCCAGCCATCCA
GGTGCCTCACTGCCTGCCCTGACCACACAGCCCAGCCCTCTGGTGAGCGGAGGTTTTCCA
CCGCCCCGAGGAGGAGACACACAGTCAGCCAGTCAATCCCCACAGCCTGCACCACCTGCAT
GCTGCCTACCGTGTGGAATGCTGGCACTGGAGATGCTGGGTGCGCGGGCACACAACGAT
CACCCCAACAATTCTCCCGCCCCCTACACTGATGATGTCAAATGGTTGCTGGGGCTGG
CAGCAAAGCTGGGAGATCGTCATGGAGACGCTGCAGCGGCTGAGTCCCGCTCATGCCAC
AACCACCTGCGTGCCCCGGCCTTCCACCAACTGGTGAGCGCTGCCAGCAGGCATACATG
CAGTACATCCACCACCGCTTGATTACCTGACTCCTGCGGACTACGACGACTTTGTGAAT
GCGATCCGGAGTGCCCGCAGCGCCTTCTGCCTGACGCCCATGGGCATGATGCAGTTCAAC
GACATCCTACAGAACCTCAAGCGCAGCAAACAGACCAAGGAGCTGTGGCAGCGGGTCTCA
CTCGAGATGGCCACCTTCTCCCCCTGAGTCTTTCACCTTAGGGTCCTATACAGGGACCC
AGGCCTGTGGCTATGGGGGCCCCCTCACACAGGGGGAGTGAACTTGGCTGGACAGATCAT
CCTCACTCAGTTCCCTGGTAGCACAGACTGACAGCTGCTCTTGGGCTATAGCTTGGGGCC
AAGATGTCTCACACCCTAGAAGCCTAGGGCTGGGGGAGACAGCCCTGTCTGGGAGGGGGC
GTTGGGTGGCCTCTGGTATTTATTTGGCATTATATAAATATATAAACTCCTTTTTTACTCT

Gene 131. >ENST00000330673 cDNA sequence

GGGGTGGGCGGGCTGGCCCATGGCTGAGACCTCTCTCCAGAGCTGGGGGGAGAGGACAA
AGCCACGCCTTGCCCCAGCATCCTGGAGCTGGAGGAGCTCCTGCGGGCAGGGAAGTCTTC
TTGCAGCCGTGTGGACGAAGTTTGGCCCAACCTTTTCATAGGAGATGCGGCCACGGCAAA
CAACCGCTTTGAGCTGTGGAAGCTGGGCATCACCCACGTGCTGAACGCCGCCCAAGGG
CCTCTACTGTGAGGGCGGCCCTGACTTCTACGGCAGCAGTGTGAGCTACCTGGGGGTGCC
AGCCACGACCTCCCTGATTTTACATCAGTGCCTACTTCTCCTCTGCGGCTGACTTCAT
CCACCGTGCCCTCAACACGCCTGGGGGCCGCGTGCTGGTACACTGTGCCATGGGGGTAAG
CCGCTCTGCCACACTTGTCTTGGCCTTCTCATGATCTGTGAGAACATGACGCTGGTAGA
GGCCATCCAGACGGTGAGGCCACCGCAATATCTGCCCTAACTCAGGCTTCTCCGGCA
GCTCCAGGTTCTGGACAACCGACTGGGGCGGGAGACGGGGCGGTTCTGATCTGGCAGGCA
GCCAGGATCCCTGACCTTGGCCCAACCCACCAGCCTGGCCCTGGGAACAGCAGGCTCT
GCTGTTTCTAGTGACCTGTAGATGTAAACAGCAAGTGGGGGCTGAGGCAGAGGCAGGGAT
AGCTGGGTGGTGACCTCTTAGCGGGTGGATTTCCCTGACCCAATTACAGAGATTCTTTATG
CAAAAGTGAGTTCAGTCCATCTCTATAATAAATATTTCATCGTC

Gene 132. >ENST00000308475 cDNA sequence

FIGURE 1 (CONT'D)

GCATCCTGGAGCTGGAGGAGCTCCTGCGGGCAGGGAAGTCTTCTTGCAGCCGTGTGGACG
AAGTTTGGCCCAACCTTTTCATAGGAGATGCAAAACAGCATCAAGTGTGCGGAGACAGGCG
GCTGAAAGCCAGCAGCACGAACTGCCCGTCAGAGAAGTGCACAGCCTGGGCCAGATACTC
CCACAGGATGGACTCACTGCAGAAGCAGGACCTCCGGAGGCCAAGATCCATGGGGCAGT
CCAGGCATCTCCCTACCAGCCGCCACATTGGCTTCGCTGCAGCGCTTGCTGTGGGTCCG
TCAGGCTGCCCACTGAACCATATCGATGAGGTCTGGCCAGCCTCTTCTGGGAGATGC
GTACGCAGCCCGGGACAAGAGCAAGCTGATCCAGCTGGGAATCACCCACGTTGTGAATGC
CGCTGCAGGCAAGTTCCAGGTGGACACAGGTGCCAAATTCTACCGTGGAATGTCCCTGGA
GTACTATGGCATCGAGGCGGACGACAACCCCTTCTTCGACCTCAGTGTCTACTTTCTGCC
TGTTGCTCGATACATCCGAGCTGCCCTCAGTGTTCCCAAGGCCGCGTGCTGGTACACTG
TGCCATGGGGGTAAGCCGCTCTGCCACACTTGTCTGGCCTTCTCATGATCTGTGAGAA
CATGACGCTGGTAGAGGCCATCCAGACGGTGCAGGCCACCGCAATATCTGCCCTAACTC
AGGCTTCTCCGGCAGCTCCAGGTTCTGGACAACCGACTGGGGCGGGAGACGGGGCGGTT
CTGATCTGGCAGGCAGCCAGGATCCCTGACCCTTGGCCCAACCCACCAGCCTGGCCCTG
GGAACAGCAGGCTCTGCTGTTTTCTAGTGACCCTGAGATGTAAACAGCAAGTGGGGGCTGA
GGCAGAGGCAGGGATAGCTGGGTGGTGACCTCTTAGCGGGTGGATTTCCCTGACCCAATT
CAGAGATTCTTTATGCAAAAGTGAGTTCAGTCCATCTCTATAATAAAATATTATCATCGTC

Gene 133. >ENST00000302577 cDNA sequence

ATGGCAGCTGAAGAAATTAATGAGGACTATCCAGTAGAAATTACGATTATTTGTGAGCA
TTTGCGAATTCATTGATGCTGTGGATGAGATGCTGAAGAACATGATGTCTGTTTCTAGA
AATGAGTTGTTGCAGAAAGTTGGACCCACTTGAAACAAGCAAAAGTGGATTTGGTTTCTGCA
TACACATTAAATCAATGTTTTGGGTTTATTTGGCAACTCAAGGAGTGAATCCTAAGGAA
CATCCAGTAAAGCAGGAATTGGAAAGAATCAGAGTATATATGAACAGAGTCAAGGAAATA
ACAGACAAGAAAAAGGCTGGCAAGCTGGACAGAGGTGCAGCTTCAAGATTTGTAAGAAAT
GCCCTCTGGGAACCAAAACCGAAAAATACATCCAAAGTTGCCCATAAAGGAAAAAGTAAA
AGTTAA

Gene 134. >ENST00000256052 cDNA sequence

GAAGCGCGCTCCCGGGGAGGTGTTGCAGCCATGGCTACGGCAGCCGGCGCGACCTACTTT
CAGCGAGGCAGTCTGTTCTGGTTTACAGTCATCACCCCTCAGCTTTGGCTACTACACATGG
GTTGTTCTTCTGGCCTCAGAGTATCCCTTATCAGAACCTTGGGCCCCCTGGGCCCCCTTCACT
CAGTACTTGGTGGACCACCATCACACCCTCCTGTGCAATGGGTATTGGCTTGCTGGCTG
ATTGATGTGGGAGAGTCTTGTATGCCATAGTATTGTGCAAGCATAAAGGCATCACAAGT
GGTGGGCTCAGCTACTCTGGTTTCTACAGACTTTCTTCTTTGGGATAGCGTCTCTCACC
ATCTTGATTGCTTACAAACGGAAGCGCCAAAAACAACTTGAAGTTGTCTGAAAGCTTGC
TCTACACTTTTACATTATCCTCACCCTTTTTTTTTGTGGGGTAGAGGAGGTGCAGTAATT
TACTCAGTGATCTTTCTACTTTCTAGAACTGTCTTCAAAGCTCTTTAAGACCCCTCG
TTAGTCAGTTTTTTCTCTTATATGCTCTGGTTGAGCTTGAATAGACCAGTTGTTACTTAA
GAAAGAAACAGAGAAAGATTTTAGCTTTTCAATCCTATTTGGCAGAGGACTTCAGCTACC
TTCTTACAGTCTTTGGCTGTGTTGGTACCCTCGTGTGCTCTGAGCTAAGCCACATACTAA
ACTGACTTTTTTGGTTTTGTATACCCTTGCTCCCGCCTTCTGATGAAAAACACCTTACCCTCA
CAACCACCATCTTTCCTCTCCTTTCCAAAGCTCTTTCACCTTGCTGCACTAAGATAAAG
TGACACTTCCACTATATGTCAATTCCACACACATTTATTAGGTACCTGTGAGGTAGGATC
CTATCCTCTCAAACCTTCCATTTCTCATGCTACAGAGAAAGATAAGGAAGATGAGCAAGTG
CCTGGAATGGGGCAGGCTGAGCAGTCACACAGGCATAGAGGCACGCTGAGAACCTGGAGG
GGAGACTGCAGAGTGCCTTCCCTGATGCTGCAGCCGGAAGTGATCCTTCCCTCCACCTGG
CCCCTGGGACACTGTGCTCTGCAGTGTGCAGGGCCTGATGGCACTGCTAGATTGCTCCTT
CAGCTCAGGGCCACAGCTTAAACAGCTTTACCTTTCCCCTCAGCACCTGTCCCCTATCT
TGACACAGGTGCTCTAACCATGTTTATTGAAACAAAGGAGGAACTGATTTCACTTTCA
CTTGTTTATTATCATTCCAATTTTTATGTGAAATGGCACAAACCATTTGGGGTACCCTC
ACCCCAAAATAAAAGCCCAAGTCTACCTTTGACTGGTACCACCTTTTTTGTGGTTTCGTT
GGTGAGAAACCTTTATCTTTTTCATACCTTTCTATTCTCAATCACTTCTCCAAAAGTGTG
TCTTTCCAGCTCTGATTTATTCAAAACACAAGCATTTCTGTTTAGAGATTCTAGCCCATG
GGTTATCTGGCTAGTTATTACCTCTCCTGTTCACTTAGTTATACTTTATTATTGCTCACA
GGCTGGGGAGGCAGAATGACTCTGTCAACCACTAGGAGCCATTAGGGCTTCTTCCCTGGAG

FIGURE 1 (CONT'D)

GA CTGCCTGCTTGCTTTCTGGGGACACTAGCCCTCATTTCCCTTCTGTGGTACAGTGGGG
CAAATTATTTGTATTAAGCAAACATTTATGGGAAACAACCCGCTCCCGAAAACGGAGCCC
CCAAGTAAAGCACAACCCGTGAAAGATTATGAACTATGAATTGTCTCTGGTAGAGATAAAT
TTCTGCAAACATATCTCAGTCTTCCCTCTGTTTCTCTGGTGATTAAAGAAGTTCCTTTTGTG
GTAAGGAAAAGGATTTTTTAACCATAGAGTTAGGCATCATGGAAATTCAAACCAGATTTCT
TAATACCTGGTCTTCCCTCAAAGAGAAATAATAACAGTAATAGTGGTGCTGGGAACAATAT
GGCAGATTATTGAATGAAATTGATTAACTTGAATAAAATGCTGTGAATTTTCTCTA

Gene 135. >ENST00000265447 cDNA sequence

ATGAGCTACCTGGCTATCCCCCGCCCCAGGTGGCTACCCACCAGCTGCACCAGGTGGT
GGTCCCTGGGGAGGTGCTGCCTACCTCCTCCGCCAGCATGCCCCCATCGGGCTGGAT
AACGTGGCCACCTATGCGGGGAGTTCAACCAGGACTATCTCTCGGGAATGGCGGCCAAC
ATGTCTGGGACATTTGGAGGAGCCAACATGCCCAACCTGTACCCTGGGGCCCCCTGGGGCT
GGCTACCCACCAGTGCCCCCTGGCGGCTTTGGGCAGCCCCCTCTGCCAGCAGCCTGTT
CCTCCCTATGGGATGTATCCACCCCCAGGAGGAAACCCACCTCCAGGATGCCCTCATAT
CCGCCATACCCAGGGGCCCCCTGTGCCGGGCCAGCCCATGCCACCCCCCGACAGCAGCCC
CCAGGGGCTACCTGGGCAGCCACCAGTGACCTACCCTGGTCAGCCTCCAGTGCCACTC
CCTGGGCAGCAGCAGCCAGTGCCGAGCTACCCAGGATACCCGGGGTCTGGGACTGTCACC
CCCGCTGTGCCCCCAACCAGTTTGAAGCCGAGGCACCATCACTGATGCTCCCGGCTTT
GACCCCTGCGAGATGCCGAGGTCTGCGGAAGGCCATGAAAGGCTTCGGGACGGATGAG
CAGGCCATCATTGACTGCCTGGGGAGTCGCTCCAACAAGCAGCGGCAGCAGATCCTACTT
TCCTTCAAGACGGCTTACGGCAAGGCAGCTGCGGGGATTTGATCAAAGATCTGAAATCT
GAACTGTCAGGAACTTTGAGAAGACAATCTTGGCTCTGATGAAGACCCAGTCCTCTTT
GACATTTATGAGATAAAGGAAGCCATCAAGGGGGTTGGCACTGATGAAGCCTGCCTGATT
GAGATCCTCGCTTCCCGCAGCAATGAGCACATCCGAGAATTAAACAGAGCCTACAAAGCA
GAATTCAAAAAGACCCTGGAAGAGGCCATTGGAAGCGACACATCAGGGCACTTCCAGCGG
CTCCTCATCTCTCTCTCTCAGGGAAACCGTGATGAAAGCACAACCGTGGACATGTCACTC
GCCCAGAGAGATGCCCAGGAGCTGTATGCGGCCGGGGGAGAACCGCCTGGGAACAGACGAG
TCCAAGTTCAATGCGGTTCTGTGCTCCCGGAGCCGGGCCACCTGGTAGCAGTTTTCAAT
GAGTACCAGAGAATGACAGGCCGGGACATTGAGAAGAGCATCTGCCGGGAGATGTCCGGG
GACCTGGAGGAGGGCATGCTGGCCGTGGTGAAATGTCTCAAGAATACCCAGCCTTCTTT
GCGGAGAGGGCTCAACAAGGCCATGAGGGGGGAGGAAACAAAGGACCGGACCCTGATTTCGC
ATCATGGTGTCTCGCAGCGAGACCGACCTCCTGGACATCAGATCAGAGTATAAGCGGATG
TACGGCAAGTCGCTGTACCACGACATCTCGGGAGATACTTCAGGGGATTACCGGAAGATT
CTGCTGAAGATCTGTGGTGGCAATGACTGA

Gene 136. >ENST00000312535 cDNA sequence

ATGTTTCTGTTTCCATCATTTCCCTGTCTTCTCCTGTCTGTGGTGACAGCTTCCTGCTCC
AAAACAAAAGCCTGTGCAGATACCCAGAAGACCTGCTCCATGATTACCTGTGGCATCCCC
GTCACCAATGGCACCCAGGCAGAGATGGGCGAGATAGACCCAAGGGGGAAAAGGGAGAG
CCAGGTCAAGGGCTCAGAGGTTTGCAGGGCCCTCCTGGGAAGATGGGGCCCCCAGGAAAC
ACAGGGACTTCTGGAATTCAGGACCTAGGGGCCAAAAGGAGATCGTGGGGACAATTCA
GGTCTGGCTTCCAGGGAACTCAGACTGCTTGCCTACTGTCTGCTGGGCTCCAAACC
CAGCCAGCCTCACTCACCATTTGTGGTTTCACTGTAAGCCTTCTCCTTGGGGAAAATGGG
AAGAAGCTTTTCTGTACCAATGGTGAGCGGATGCCTTTCTCCAAAGTGAAGGCTCTGTGT
GCTGGGCTCCAGGCCACAGTGGCTGCCCCAAGAATGCCGAGGAGAATAAGGCCATCCAG
GATGTGGCCAAAGACACTGCCTTCTGGGCATCAGATGAGGCAACTGAAGGCCAGTTC
ATGTACTTGACGGGCAGGAGGCTGACCTACAGCAACTGGAAGAAGGATGAGCCAAATGAC
CACGGCTCAGGGGAGGACTGCGTTATTCTCCTGAACAACGGGCTCTGGAATGGCATCTCC
TGCACCTCCTCCTTCATTGCCATCTGTGAGTTT

Gene 137. >ENST00000256035 cDNA sequence

AGTTTGCTTGGAGCTCCTGGGGCCTAACAAAAGAAACCTGCCATGCTGCTCTTCCTCCT
CTCTGCACTGGTCTCTGCTCACACAGCCCTGGGCTACCTGGAAGCAGAAATGAAGACCTA
CTCCACAGAACAAATGCCAGTGCTTGCACCCTGGTCATGTGTAGCTCAGTGGAGAGTGG
CCTGCCTGGTTCGCGATGGACGGGATGGGAGAGAGGGCCCTCGGGGCGAGAAGGGGGACCC
AGGTTTGCCAGGAGCTGCAGGGCAAGCAGGGATGCCTGGACAAGCTGGCCAGTTGGGCC

FIGURE 1 (CONT'D)

CAAAGGGGACAATGGCTCTGTTGGAGAACCTGGACCAAAGGGAGACACTGGGCCAAGTGG
ACCTCCAGGACCTCCCGGTGTGCCTGGTCCAGCTGGAAGAGAAGGTCCCTGGGGAAGCA
GGGGAACATAGGACCTCAGGGCAAGCCAGGCCCAAAGGAGAAGCTGGGCCAAAGGAGA
AGTAGGTGCCCCAGGCATGCAGGGCTCGGCAGGGGCAAGAGGCCTCGCAGGCCCTAAGGG
AGAGCGAGGTGTCCCTGGTGAGCGTGGAGTCCCTGGAAACAAGGGGAGCAGGGGTCTGC
TGGAGCCATGGGTCCCAGGGAAGTCCAGGTGCCAGGGGACCCCCGGGATTGAAGGGGGA
CAAAGGCATTCTCTGGAGACAAAGGAGCAAAGGGAGAAAGTGGGCTTCCAGATGTTGCTTC
TCTGAGGCAGCAGGTTGAGGCCTTACAGGGACAAGTACAGCACCTCCAGGCTGCTTTCTC
TCAGTATAAGAAAGTTGAGCTCTTCCCAAATGGCCAAAGTGTGCGGGAGAAGATTTTCAA
GACAGCAGGCTTTGTAAAACCATTTACGGAGGCAAGCTGCTGTGCACACAGGCTGGTGG
ACAGTTGGCCTCTCCACGCTCTGCCGCTGAGAATGCCGCTTGCAACAGCTGGTCTAGC
TAAGAACGAGGCTGCTTTCTGAGCATGACTGATTCCAAGACAGAGGGCAAGTTCACCTA
CCCCACAGGAGAGTCCCTGGTCTATTCCAAGTGGGCCCCAGGGGAGCCCAACGATGATGG
CGGGT CAGAGGACTGTGTGGAGATCTTCAACAATGGCAAGTGAATGACAGGGCTTGTGG
AGAAAAGCGTCTTGTGGTCTGCGAGTTCTGAGCCAACTGGGGTGGGTGGGGCAGTGCTTG
GCCCAGGAGTTTGGCCAGAAGTCAAGGCTTAGACCCTCATGCTGCCAATATCCTAATAAA
AAGGTGACCAT

Gene 138. >ENST00000320599 cDNA sequence

CTGGCAGACTACCTGATCAGCAGCGGCACCAGCTACGTGCCCCGAGGACGGGCTCACCGCG
CAGCAGCTCTTACCAGCACCAACGGCCTCACCTACAATGACTTCTGATTCTCCAGGA
TTCATAGACTTCATAGCTGATGATGAGGTGGACCTGACCTCAGCCCTGACCCACAAGCTG
AAGACGCCGCTGATCTCCTCCCCTGTGGACACTACAGAGGCTGACATGGCAATCGGGATG
GCTCTGATGGGAGGTATTGGTTTCATTACCCACAAGTGCACCCAGAGTTCGAGGCCAAT
GAGGTGCTGAAGGTCAAGAAGTTTGAACAGGGCTTCATCACGGACCCTGTGGTGCTGAGC
CCCTTGACACCGTGGGTGATTTGGAGGCCAAGATGCTGCATGGCTTCTCTGGTATCCCC
CTCACTGAGACGGGCACCATGGGCAGCAAGCTGGTGGGCATCATCACCTCCCGAGACGTC
GACTTTCTTGCTAAGAAGGAGCACGCCACCTTCATCAGTGAGGTGATGACGCCAAGGATG
GAACTGGTGGTGGCTTTGAAAGGTGTGACGTTGAAAGAGGCAAATGAGATCCTGCAGCGT
AACAAGAAAGGGAAGCTGCCTATCGTCAGTGATCGCGATGAGCTGGTGGCCATCATTGCC
CGCACTGACCTGAAGAAGAATCGAGACTACCTCTGGCCTCCAAGGATTCCCAACAACAG
CTGCTGTGCAGGGCAGCTGTGGGCACCCGTGAGGATGACGAATGCCACCTGGACCTGCTC
ACCCAGGCGGGTGTCAATGTTGTAGTCTTGGACTCATCCAAGGGAGCTCGGTGTATCAG
ATCACCATGGTGCATTACATCAAACAGAAGTACCCCCACCTCCAGGTGATTGGGGGGAAC
GTGGTGA CAGCAGCCCAGGCCAAGAACCTGATGGACGCTCGTGTGGACGGGCTGCATGTG
GGCATGGGCTACGGCTCCATCTGCATTACCCAGAAAGTGATGGCCTGCGGTTGGCCCCAG
GGCACTGCTGTGTACAAGGTGGCCAAAGTATGCCCAGTGCTTTGGTGTGCCCATCATAGTC
GATGGTGGCATCCAGACTGTGGGGCACGTGGTCAAGGCCCTGGCCCTTGGAGCCTCCACA
GTGATGATGGGCCTGCTGGCCACCACCGAGGCACCTGGTGAGTACTTCTTCTTAGAA
AGGGTGCAGCTCAAGAAGTACCAGGGCATGGGCTCACTGGATGCCATGGAGAAGAGCAGC
AGCAGCCAGAAACGATACTTCAGCAAGGGGGATAAGGTGAAGATCGCACAGGGTGTCTCG
GGCTCCATCCAGGACAAAGGGTTCATT CAGAAGTTCTGTGCCCTACCTCATAGCGGGCATC
CAGCACAGCTGCCAGGATATCGGGGCCCGCAGCCTGTCTGTCTTTGGTCCATGATGTAC
TCAGGGGAGCTCAAGTTTGAGAAGCAGACCATGTGCGCCAGATCAAGGGTGGTGTCCAT
GGCCTGCACTCGTATGAGAAGCAGCTGTGA

Gene 139. >ENST00000320511 cDNA sequence

TCTACCTACAGCGTCTCTGTCCACCATGCCCTCAGACTCAGAAAGCAGCAGCTCCCTCAGC
AGTGTGGGCACTACCGGAAGGCGCCGTCCCCACCACCCCTCCTCACTGACCAGCAAGTG
AATGAGAAGGTGGAGAACCTCTCCATT CAGCTGCGGCTGATGACCCGGGAGAGAAACGAG
CTCCGCAAGCGCCTGGCCTTTGCTACGCATGGCACGGCCTTTGACAAGAGGCCCTACCAC
AGGCTGAATCCTGACTATGAGAGGCTGAAGATCCAGTGCGTGCAGCCATGTCTGGACCTG
CAGAGCCTGCAGAACCAGCACCAACGCCTTGAAGAGGTGTGAGGAGGTGGCCAAGGAG
ACTGACTTCTACCACACACTCCACAGCCGGCTCCTGAGTGACCAGACTCGGCTGAAGGAT
GACGTGGACATGCTGAGGCGGGAGAATGGGCAGCTGCTGCGGGAGCGAAACCTGCTGCAG
CAGTCATGGGAGGACATGAAGCGGCTCCACGAGGAGGACCAGAAGGAGATCGGTGACCTC

FIGURE 1 (CONT'D)

CGTGCCAGCAGCAGCAGGTGTTGAAGCACAAACGGGTATCCGAGATTCTCAACAACTG
TATGACACGGCCATGGACAAGTTGGAGGTGGTCAAGAAGGACTATGACGCCCTTCGGAAG
AGGTACAGTGAGAAAGTCGCCATCCACAATGCAGACCTGAGCCGCTGGAGCAGCTGGGG
GAGGAGAACCAGCGGTTGCTGAAGCAGACAGAGATGCTGACCAGCAGAGGGACACGGCC
ATCCAGCTGCAGCACCAGTGCGCCCTCTCCCTGAGGAGGTTTGGGGGATCCACCATGAG
CTGAACAAGGCCACGGCGCAGAACAGGACCTGCAGTGGGAGATGGAGCTGCTGCAGTCA
GAGCTGACCGAGCTGAGAACACGCAGGTGAAGACAGCAAAGGAGTCGGAGAAATACAGG
GAGGAGCGGGACGCTGTGTACAGCGAGTACAAGCTCATCATGAGTGAGCTGACCAGGTC
ATCTCTGAGCTGGACAAGCTGCAGACCGAAGTGGAGCTGGCCGAGTCCAAGCTCAAGAGC
AGCACATCTGAGAAGAAGGCGGCCAATGAGGAGATGGAGGCGCTGCGGCAGATCAAAGAC
ACGGTGACAATGGATGCTGGGAGAGCCAACAAGGAGGTTGAAATCCTTCGAAAGCAGTGC
AAGGCTCTGTGCCAGGAGCTGAAGGAAGCCCTCCAGGAGGCGGATGTGGCCAAGTGCCGG
CGGGACTGGGCCCTTCAGGAGCGAGACAAGATTGTAGCAGAGCGTGACAGCATCCGGACA
CTGTGTGACAACCTGAGGCGGGAGCGGGACCGTGCGGTGAGCGAGCTGGCTGAGGCCCTG
CGCAGCCTGGATGACACCCGCAAGCAGAAGAATGATGTGAGCCGCGAGCTGAAGGAGCTC
AAGGAACAGATGGAATCCAGTTGAAAAGGAGGCCCGGTTCCGACAGCTGATGGCCAC
AGCTCCACGACTCGGCCATTGACACGGATTCCATGGAGTGGGAAACGGAAGTTGTAGAG
TTCGAGAGGGAGACGGAGGATATTGACTTGAAGGCACTGGGGTTTGATATGGCAGAAGGT
GTGAATGAGCCTTGTTCCTCGGGGACTGTGGCATATTTGTCACTAAAGTGGACAAAGGA
AGCATTGCTGATGGCCGCTTAAGGGTCAATGACTGGCTGCTGAGAATCAACGATGTGGAC
CTCATCAACAAGGACAAGAAGCAGGCCATCAAGGCGCTCCTCAATGGGGAGGGGGCCATC
AACATGGTTCGTGCGCGGAGGAAGTCCCTGGGTGGGAAGGTGGTCAAGCCGCTGCACATC
AACCTCAGTGGAAGAAAGACAGTGGCATCAGTCTGGAGAATGGAGTGATGCTGCCGCT
GTGCTGCCTGGAAGCCCTGCCGCTAAAGAAGGGTCCCTTGCTGTGGGAGACAGGATCGTT
GCGATCAATGGCATTGCACTGGACAACAAGTCTCTGAATGAATGTGAATCTCTGCTGCGC
AGCTGCCAGGACTCCCTGACCCTGTCCCTCCTGAAGGTATTCCCTCAGAGCTCCTCGTGG
AGTGGCCAGAACATTTTTGAAAATATCAAAGACTCTGATAAGATGCTGAGTTTTTCGAGCC
CATGGCCCGGAGGTCCAGGCTCATAACAAACGGAACCTTGATACAGCACAACTAACCCAG
CAGACAGACATCTTCTACACGGACAGGCTGGAAGACAGGAAGGAGCCAGGCCCCCAGGA
GGCAGCAGCTCCTTTCTGCATAAGCCATTCCCTGGGGGACCTTGCAGGTCTGCCCCCAG
GCCTGTCCAGTGCTCTGAGCGTAGCCTGAGCTCCTTCCGCTCAGATGCCTCTGGGGAC
CGTGGCTTTGGGCTGGTGGACGTGCGTGGCCGGCGGCCACTGCTGCCCTTTGAGACCGAG
GTGGGCCCCCTGTGGGGTTGGGGAGGCCTCCCTGGACAAGGCAGACTCTGAAGGCTCCAAC
AGCGGCGGGACCTGGCCCAAGGCCATGCTCAGCTCCACGGCAGTGCCTGAGAAGCTCTCT
GTTTATAAAAAGCCAAAGCAAAGAAAGTCCATCTTTGACCCTAACACTTTCAAACGCCCC
CAGACACCCCCCAAATAGACTACCTGCTTCCAGGTCTGGGCCTGCTCACTCTCCCCAG
CCCTCCAAGAGGGCGGGGCTCTGACACCCCCAAACCTCCAGAAGGAGCGACTCCATT
AAGTTCCAGCACAGGCTGGAGACTAGCTCCGAGTCAGAAGCCACTCTGGTGGGCAGCTCC
CCATCCACTAGTCCCCCGAGCGCCCTGCCCCCTGACGTGGACCCCGGGGAGCCCATGCAC
GCATCACCCCTCGCAAGGCCAGGGTCCGCATTGCTTCCAGCTACTACCCTGAAGGAGAT
GGGACTCCTCCACCTGCCGGCCAAGAAATCCTGTGATGAGGACCTACCTCCCGAAG
GTGGATGAGCTGGGGCAGAAGCGTCGCCGGCCAAAATCTGCTCCAGTTTTTCGGCCGAAG
CTTGCTCCAGTAGTGATTCTGCTCAGTTCCTGGAGGAACAGAAGTGTGTCCCGGCCAGT
GGAGAACTCTCCCCGAGCTCCAGGAGTGGGCACCTTACTCGCTGGGCATTCCAGCCGG
CACAGCAACCCCCCGCTATACCCTAGCAGGCCGTCTGTGGGCACTGTTCCCCGGAGTTTG
ACCCCCAGCACCACTGTGAGCTCCATCCTGCGGAACCCCATCTACACTGTGCGCAGTCAC
AGGGTCGGCCCCCTGCAGCTCTCCACCTGCGGCCCGAGATGCTGGCCCCCAGGGTTTGAT
CCCAGTGTCCAGCACAGGGACGCTGAGCCTGGACCTGAGCCACAGGACCTGCAGCGAC
TACTCCGAGATGAGAGCCACCCATGGGTCCAACCTCACTGCCCTCCAGCGCCCCGCTGGGT
TCTTCGAGTAACTTGCAAGTTCAGGCGGAACGCATTAAAATCCCATCAACACCAAGATAT
CCGCGGAGTGTGCTGGGCTCCGAGAGAGGTTTCAAGTGTACATTCTGAATGCAGCACTCCT
CCACAGTCACCCCTGAACATCGACACCCCTGTCTCTTGTAGCCAGTCCAGACCTCAGCC
TCCACATTGCCCAGAATCGTGTCAACCCCGCGTCCCTCGGGGAGCGGAGAAAGGACAGG
CCTTATGTGGAGGAGCCACGCCACGTGAAGGTGCAGAAGGGCTCAGAGCCGCTGGGCATC

FIGURE 1 (CONT'D)

TCCATCGTGAGTGGAGAGAAGGGCGGCATCTACGTCTCCAAGGTGACCGTGGGGAGCATC
GCTCACCAGGCTGGCCTCGAGTATGGGGATCAGTTACTGGAGTTCAACGGCATAAACCTG
CGGAGCGCCACGGAGCAGCAGGCGCGGCTCATCATCGGGCAGCAGTGTGATACCATCACC
ATCCTGGCCCAGTACAACCCACAGTGCACCAGCTCAGCAGCCACTCCCGGTCCAGCTCA
CACCTGGACCCTGCCGGTACCCACTCCACTCTCCAGGGCAGTGGCACCACCAACCCCGGAG
CATCCATCTGTTCATCGACCCACTGATGGAGCAGGACGAGGGGCCTAGCACCCCCCAGCC
AAGCAGAGCAGCTCCAGGATTGCGGGAGATGCCAACAAGAAGACCCTGGAGCCACGCGTT
GTCTTCATCAAAAAGTCCCAGCTGGAGCTTGGGGTGCACTTGTGTGGTGGGAACCTGCAT
GGGGTGTGTTGTGGCCGAGGTGGAGGATGACAGTCTGCCAAGGGTCTGACGGCCTCGTG
CCAGGGGACCTCATCCTGGAGTATGGCAGCCTGGACGTGCGGAACAAGACAGTGGAGGAA
GTCTATGTGGAGATGCTGAAGCCCAGGGATGGCGTCCGCTGAAGGTGCAGTACCGCCCT
GAGGAGTTCACGAAGGCCAAGGGCCTGCCTGGTGACAGCTTCTACATCAGGGCCCTGTAC
GACCGGCTGGCAGATGTGGAGCAAGAGTTGAGCTTTAAGAAGGACGACATCCTCTACGTG
GATGACACCTTACCCAGGGCACGTTCCGGTCTGGATGGCTTGGCAGCTGGACGAGAAT
GCCCAGAAGATCCAGCGCGGGCAGATTCCAGCAAATATGTGATGGACCAAGAATTCTCC
AGGAGGCTCAGCATGTCTGAAGTCAAAGATGACAATAGCGCCACAAAGACGCTGTACGCG
GCTGCACGCGCGTCTTTTTTTCGGAGGAAACACAAGCAAAACGAGCGGGTCCAAGGAC
GGGAAAGACCTGCTCGCCTTGGATGCCTTTTCCAGTGACTCCATTCCACTCTTTGAAGGC
AAGTGGCTGAGCTCATTTTTCCAATTCCGTGAGCCTGGCCTATCAGCGGGTCCAGAAGGTG
GACTGCACCGCTCTGAGGCCTGTCTGATTCTGGGGCCTTTGCTGGACGTGGTGAAGGAG
ATGCTGGTGAATGAGGCTCTGGCAAGTTCTGCAGATGTCCCCTTGAGGTGATGAAGGCC
TCCCAGCAGGCCATTGAGCGGGGTGTCAAAGATTGCCTGTTTGTGACTATAAGCGGAGA
AGCGGCCATTTGCATGTGACCACTGTGGCGTCAATAAAGGAGATCACAGAAAAGAACCGA
CACTGCCTCCTGGACATTGCTCCGACGCTATTGAGCGGCTCCACACATGCACATCTAC
CCCATTGTCTCTTCATCCACTACAAGAGCGCCAAGCACATCAAGGAGCAGAGAGACCCC
ATCTACCTGAGGGACAAGGTGACTCAGAGGCATTCAAAGAGCAGTTTGAGGCGGCGCAG
AAGCTTGAGCAGGAGTACAGCAGGTACTTCAGGGGTCATCAGGGAGGAGCCCTGTCA
AGCATTTGCACTCAGATCTTGGCAATGGTCAATCAAGAACAAAATAAAGTCTGTGGATT
CCAGCCTGCCCGCTCTAGGAGAATGCTGTGCTGTGGATGACTGCAGCTGGCCGCCTGAGG
GGACACCAGACTCAGCTCTTTTCTAGCGACTGAAAGTAGAAGTCTGTCCGTCTATGAACA
TGCGGGGGAAGGATCCGGAACCAGGACCAGAAGCACCTCCTTTGTAGACAGAGGGCCAC
GGCTGCGTGCGATCCAGGCCCAGGCCACACACTCTGCCCGTGTACACGTGTGCTTTAA
CACAAAACAGATAACACTAAAGACGGGTTCAGCAACCCACCTTTCTTTAGCCAGCTGATCA
GAGATGCTGCAAAGAGAACCTTTCCGATCACTCGTTTACAAGCCTTTTCTAAGTATTTGG
TGTTTTATGTTTACTTGAACGGCTCCATGTTGCCGGTGCCAGCCCCTGTCCCCTCTGTC
AACCCCTGTGCTTTGGTGTGTTGTTTCTGTTCCCGTCTTCAGCAAAACGACCTTGGAACC
TCAATGGGGGCTGCTTTGCTTTGGGAGGTTCTTGTGGTGGGACCAGAGCTTTGACAAAC
CTCCTGCTCCTTGGTGGCACCTCTCCTGGAAGGACGTCAAACTCCAGGTGCTCAGACTG
CCTGTGGCAGCAGAACCAAGTGCCTTTGGCATTCTCCTCCACAATGGGGAAGGTGACTTT
GGCATTCTTACAAACTCGTCTCTCGGCCTTTCTCCTGCCTTCACAGCCTCTCGTTTC
TCCTCCATCTGTGCTTATTACTTGAGGACTGTGTCTGCTCCGTGAGAGCTGCGTGGGCAG
GGCTGCAGTGGGGTCCAGGTGGTGTTCAGCTGTGCTGATGCCTGCCATTGGGTCTCCTT
AGGCTCTGTAAGTCGTGACAGCCTTCATCAGTGCAATGTTTGAGGGTAATTCTTAAACT
TTTTAGAGGGTGGCAGGTACATCAGTCTTTTTTGATATGAAAACATTGATGTTTCAGACA
TTGAATTGAGAGCTTTTAGGGGAAGCATAATGGTTATTGTCACTATCAACAGTCTAAAAA
GAAAAACTGAGGTCTTTTTAATCTTGATTACAGCACTCACGGCATGCACCTACTCAGTG
TGGGTGCTTTCGTTTGGGGGCTTTTTTTTTTTTGCACCTCTGAGGCTAGATATGTCTGG
CTGAAGATTTGATGTGGTTCCTCCTTAAGCTATGCGTCTGTTAATAATAGGTACTGTAC
TGGGCTCTGTGTAAGTGTGTTGGGGTAGGACCTATATTTAATACTGTTCTTAACATTT
CATTTTTACTAGCGAGAACTCTTTGATTTCAATTTATTTCTTTGTAATTCTAGACACTAGAT
TGTAAGTTTAGCCATAACTGATGTTTTTAAAAAGGGATATATTTCTTGACAGTTGTTT
AAAAAAGAGACAAGTTTCAGTCTCAATGCTGTCCTTTGTTTTACAGGTACAAGTTTCT
AGCTCAGACAACTATGAAAACTGTAGACTATTCTCAAGGTATTAACCTCGCAGACCCTC
TGGGGTAGGGGCTGTTTTCTAAGTTACAGGCAGAGTGGGACTGAGATGGTACAGTGTGC

FIGURE 1 (CONT'D)

ACAGACAGGTACTGAGCTGACAGACTGGGATTTTCTGTACTAAAATGTTACTTTGTATCA
AAAGTTAAACAGGCTTTAGTACAACAAATAAAGGTCAATTTCTGT

Gene 140. >ENST00000298189 cDNA sequence

CCTAACTCAGGCCCCCTCGTCTGGCAGGCTCCAGGCGCCCTCTGCGGAGGTGTTGTGTG
TCCACCTCCCCTACTCCTGGCAGCTGCTCCTGTGGTGCCTGTTATGGCTGCCAGGTGGT
TGGGGGCACCCAGGCTGTGAGGGAGGCTGGTCCCAGGGCCTTCCTCTTCACCACCACC
ACCACCGGCTGCCAGCTGCCCCCATTTGTGTCCCAAGGAATGCTGGGCCATGGCCACA
AGGGGCTCATGGAGAGAGCAGCCTGGCTTCCTCCCAGGCCAAGGCCCGCCAGATGACTC
CTGTAACCCCAGGAGTGTCTATGAGAACTTCGACTCTGGCAGCACTACAAGCCCCTGGC
CCGGAGGCACCTTCCCAGAGTCTTGACACCGAAGCGCTTTCGTGCTTCCTCATCCAGT
TCTCCGATCGCTGGCCCGGCGGAAGCCCCACCATGACCCTGGAGGAGGGACTGTGGCGGGC
CATGCGGGAATGGCAGCACACGAGCAACTTTGACCGGATGATCTTCTACGAGATGGCGGA
AAAGTTCCTGGAGTTTGGAGCTGAGGAGGAGATGCAGATTGAGAAATCGCAATGGATGAA
GGGGCCCCAGTGCCTGCCTCCTCCAGCCACACCGAGGCTTGAACCTCGAGGACCCCCGGC
CCCTGAGGTGGTCAAGCAGCCAGTGTACCTTCCCAGCAAGGCCGGCCCCAAGGCCCAGAC
TGCCTGCCTGCCACCACCCAGACCCCAGAGGCCAGTGACCAAGGCCCGCCGGCCACCACC
CCAGCCCCACCGGCGAGCAGAGACCAAGGCCCGCCTGCCACCACCCAGGCCCCAGAGACC
AGCAGAGACCAAGGTCCCTGAGGAGATCCCCCAGAAGTGGTGAGGAGTATGTGGACAT
CATGGAGGAGCTGCTGGGGCCTTCCCTCGGGGCCACGGGGGAGCCCGAGAAACAACGGGA
AGAGGGCAAAGTGAAGCAGCCAAGGAAGAGGACTGGACGCCCCAGACCCGGGCCTCCT
GAGCTACATTGACAAGCTGTGTTCCAGAAAGACTTCGTACCAAGGTGGAGGCCGTCTCAT
TCATCCCCAATTCTGGAAGAATTGCTTTCCCCAGATCCACAGATGGATTTCTTGCCCT
AAGCCAGGACCTGGAGCAGGAGGAAGGACTCACCTTGCCAGCTAGTGGAGAAGCGCCT
CCCACCTTGAAGGAGAAACAGCATTTCGAGGGCAGCCCCCTAGTCGTGGCACAGCCCGGTT
GGACTCAAGTTCTTCTAAGTTTGCAGCTGGCCCAAGGAGCAGAGAGAGACGTCCCTGACCC
CCAAGAAGGGGTTGGCATGGAAACCTGCCCCACCCAGACGACTGCCCGGGACTCTCAGGG
ACGAGGCAGAGCACACACTGGCATGGCCAGGTCCGAAGACTCTGTTGTGCTTTTGGGATG
TCAGGATTTCCCTGGGCTGAGGGCTGCCCCGCCAACCTCTCCTCCCCAGGACCACAGACC
CACCTGCCCTGGCGTGGGTACCAAGGATGCCTTGGATCTCCCTGGAGGGTCTCCTGTGAG
GGAGTCAATGGGCTGGCTCAGGGGTCAAGTGAGGAGGAGGAACCTCCCAGCCTGGCCTT
CCTCTTGGGTTCCAGCACAAAGCTTCTGCCCTGGTGGCTACCCCAGAGCCCTGTCCCTGC
CTCGGGCCTTCTCAGCCCAGAAAAGTGGGGACCCAGGGAACTCATCAGTCCCCTCTGCTG
TGAGAGAAGAGGCCTCAACCTAGCACCTTCTCCTGCCAACAAGGCCAAGAAGCAACCTCT
CTTTGGAAGCCTGTCCCTGTGTAAGACACCCACCGAGGGCCTGGGCTCAGGGTCTC
TGGGGAGCAATCCCTGACTTGGGGGCTGGGTGGCCCCCTCACAGTCTCAAAAGAGAAAGGG
TGACCCCTTGGTCTCCAGGAAGGAGAAGAAGCAGCATTGTAGCCAGTAGGGGCTTCTGAG
CAGGCTCTCTGGGGCCAATCCCCAAGGATGGGGCTCTGGCATCCGATGCCCCAAAGCGGT
CAAAAGCTTCTTCTCCCCAGTGTGATCTTGCTGGGCCTTAGCTTTGGAGGGTAGGGGA
GGGAGGGGAGGGAGAGGGTGGCTGAATGGGAGGGCAGGAAGGGAGGGTCTGGGGGAAG
GGGCTGGGGAGTGGGGGTGGGAAGCAGTGTGTTGGGGGCCTCGTGTGTAAGTGTGAATAA
ATGTAGTTGTCTTGG

Gene 141. >ENST00000335456 cDNA sequence

CAGCTGCCCCTGCCCCCTCCCCCTCTGCAGAATGTCTGGGGTCTATGTTCCAGGAACCT
GTTTACTTTCAAATTTTCTTTTCAAGTTGGACTCAGGAGCATCTGGTGAGCCAGGTCACTCT
CTGGGTCTTACCCTTGGCTTTTCTTATTGCGGAACTGCCAGACGGCGGTGGTCACTGCC
CAGCCTGAGGGGATGGCTTCGAATGGAGCATACCCAGTGTGGGACCGGGCGTGACTGCG
AACCTTGGCACCTCCCTGTCTGTGTTACGGCTCTGCCCTTACCCACACCCGCTCCCCGGC
CCAGCACACGGGCCGCTCCTTGTGACTGCAGGGGCTCCTCCAGGCGGCCCTCTGGTGCTG
TCTACCTTCCCCAGCACACCTCTGGTGACAGAACAGGATGGCTGCGGCCCGAGTGGGGCT
GGGGCTTCAAACGTCTTTGTCCAGATGAGGACAGAGGTGGGGCCTGTGAAGGCCGCTCAG
GCGCAGACCTTGGTCTTAACCTCAGGCCCCCTCGTCTGGCAGGCTCCAGGCGCCCTCTGC
GGAGGTGTTGTGTGTCCACCTCCCCTACTCCTGGCAGCTGCTCCTGTGGTGCCTGTTATG
GCTGCCCAGGTGGTTGGGGGCACCCAGGCCTGTGAGGGAGGCTGGTCCCAGGGCCTTCCT
CTTCCACCACCACCACCACCGGCTGCCAGCTGCCCCCATTTGTGTCCCAAGGAATGCT

FIGURE 1 (CONT'D)

GGGCCATGGCCACAAGGGGCTCATGGAGAGAGCAGCCTGGCTTCTCTCCAGGCCAAGGCC
CCGCCAGATGACTCCTGTAAACCCAGGAGTGTCTATGAGAACTTCCGACTCTGGCAGCAC
TACAAGCCCCTGGCCCGGAGGCACCTTCCCCAGAGTCCTGACACCGAAGCGCTTTTCGTGC
TTCCTCATCCCAGTTTCTCCGATCGCTGGCCCCGGCGGAAGCCACCATGACCCTGGAGGAG
GGACTGTGGCGGGCCATGCGGAATGGCAGCACACGAGCAACTTTGACCGGATGATCTTC
TACGAGATGGCGGAAAAGTTTCTGGAGTTTGAGGCTGAGGAGGAGATGCAGATTGAGAAA
TCGCAATGGATGAAGGGGCCCCAGTGCCTGCCTCTCTCCAGCCACACCGAGGCTTGAACCT
CGAGGACCCCCGGCCCCTGAGGTGGTCAAGCAGCCAGTGTACCTTCCCAGCAAGGCCGGC
CCCAAGGCCCCAGACTGCCTGCCTGCCACCACCAGACCCAGAGGCCAGTGACCAAGGCC
CGCCGGCCACCACCCAGCCCCACCGGCGAGCAGAGACCAAGGCCCGCTGCCACCACCC
AGGCCCCAGAGACCAGCAGAGACCAAGGTCCCTGAGGAGATCCCCCAGAAGTGGTGCAG
GAGTATGTGGACATCATGGAGGAGCTGCTGGGGCCTTCCCTCGGGGCCACGGGGAGCCC
GAGAAACAACGGGAAGAGGGCAAAGTGAAGCAGCCACAGGAAGAGGACTGGACGCCCCCA
GACCCGGGCCTCCTGAGCTACATTGACAAGCTGTGTTCCAGAAAGACTTCGTACCCAAG
GTGGAGGCCGTCATTTCATCCCCAATTCTGGAAGAATTGCTTTCCCCAGATCCACAGATG
GATTTCTTGGCCCTAAGCCAGGACCTGGAGCAGGAGGAAGGACTCACCTTTGCCAGGGA
GCCCTTTCAGATGCTCCAGGGACTGACAGATGCTGA

Gene 142. >ENST00000305740 cDNA sequence

GGGCTCCTCCAGGCGGCCCTCTGGTGCTGTCTACCTTCCCCAGCACACCTCTGGTGACAG
AACAGGATGGCTGCAGCCCCGAGTGGGGCGGGGCTTCCAACGTCTTTGTCCAGATGAGGA
CAGAGGTGGGGCCTGTGAAGGCCGCTCAGGCGCAGACCTTGGTCTCTAACTCAGGCCCCCC
TCGTCTGGCAGGCTCCAGGCGCCCTCTGCGGAGGTGTGTGTGTCCACCTCCCCTACTCC
TGGCAGCTGCTCCTGTGGTGCCTGTTATGGCTGCCCAGGTGGTTGGGGGCACCCAGGCCT
GTGAGGGAGGCTGGTCCAGGGCCTTCTCTTCCACCACCACCACCACCGGCTGCCCAGC
TGCCCCCATTTGTGTCCCAAGGGAATGCTGGGCCATGGCCACAAGGGGCTCATGGAGAGA
GCAGCCTGGCTTCTCCAGGCCAAGGCCCCGCCAGATGACTCCTGTAACCCAGGAGTG
TCTATGAGAACTTCCGACTCTGGCAGCACTACAAGCCCTGGCCCGGAGGCACCTTCCCC
AGAGTCCTGACACCGAAGCGCTTTCTGTCTTCTCATGCCCCAGAGACCAGCAGAGACCA
AGGTCCCTGAGGAGATCCCCCAGAAAGTGGTGAGGAGTATGTGGACATCATGGAGGAGC
TGCTGGGGCCTTCCCTCGGGGCCACGGGGGAGCCCGAGAAACAACGGGAAGAGGGCAAAG
TGAAGCAGCCACAGGAAGAGGACTGGACGCCCCAGACCCGGGCCCTCCTGAGCTACATTG
ACAAGCTGTGTTCCAGAAAGACTTCTGTACCAAGGTGGAGGCCGTCAATTCATCCCCAAT
TCCTGGAAGAATTGCTTTCCCCAGATCCACAGATGGATTCTTGGCCCTAAGCCAGGACC
TGGAGCAGGAGGAAGGACTCACCTTGCCAGCTAGTGGAGAAGCGCCTCCACCTTGA
AGGAGAAACAGCATTGAGGGCAGCCCCCTAGTCGTGGCACAGCCGGTTGGACTCAAGTT
CTTCT

Gene 143. >ENST00000286628 cDNA sequence

[illegible]

FIGURE 1 (CONT'D)

GAATGTGTCTATTTACTCATGGTCACAATGTCCACCGTTGGTTATGGGGATGTTTATGCA
 AAAACCACTTTGGGCGCCTCTTCATGGTCTTCTTCATCCTCGGGGGACTGGCCATGTTT
 GCCAGCTACGTCCCTGAAATCATAGAGTTAATAGGAAACCGCAAGAAATACGGGGGCTCC
 TATAGTGCGGTTAGTGGAAGAAAGCACATTGTGGTCTGCGGACACATCACTCTGGAGAGT
 GTTTTCCAACCTTCTGAAGGACTTTCTGCACAAGGACCGGGATGACGTCAATGTGGAGATC
 GTTTTTCTTCACAACATCTCCCCAACCTGGAGCTTGAAAGCTCTGTTCAAAACGACATTTT
 ACTCAGGTGGAATTTTATCAGGGTTCCGTCTCAATCCACATGATCTTGCAAGAGTCAAG
 ATAGAGTCAAGAGATGCATGCCTGATCCTTGCCAAACAAGTACTGCGCTGACCCGGATGCG
 GAGGATGCCTCGAATATCATGAGAGTAATCTCCATAAAGAACTAATCCGAAAGATAAGA
 ATCATCACTCAAATGCTGCAGTATCAACAAGGCCATCTGCTAAACATCCCGAGCTGG
 AATTGGAAAGAAGGTGATGACGCAATCTGCCTCGCAGAGTTGAAGTTGGGCTTCATAGCC
 CAGAGCTGCCTGGCTCAAGGCCTCTCCACCATGCTTGCCAACTCTTCTCCATGAGGTCA
 TTCATAAAGATTGAGGAAGACACATGGCAGAAATACTACTTGGAAGGAGTCTCAAATGAA
 ATGTAACAGAAATATCTCTCAGTGCCTTCGTGGGTCTGTCTTCCCTACTGTTTGTGAG
 CTGTGTTTTGTGAAGCTCAAGCTCCTAATGATAGCCATTGAGTCAAGTCTGCCAACCGA
 GAGAGCCGTATATTAATTAATCCTGGAAACCATCTTAAGATCCAAGAAGGTACTTTAGGA
 TTTTTCATCGCAAGTGATGCCAAAGAAGTTAAAGGGCATTTTTTTTACTGCAAGGCCTGT
 CATGATGACATCACAGATCCAAAAGAATAAAAAAATGTGGCTGCAACGGCTTGAAGAT
 GAGCAGCCGTCAACACTATACCAAAAAAAGCAACGGAATGGAGGCATGCGGAACCTCA
 CCCAACACCTCGCCTAAGCTGATGAGGCATGACCCCTTGTTAATTCTGGCAATGATCAG
 ATTGACAACATGGACTCCAATGTGAAGAAAGTACGACTCTACTGGGATGTTTCACTGGTGT
 GCACCCAAGGAGATAGAGAAAGTATCCTGACTCGAAGTGAAGCTGCCATGACCGTCTCG
 AGTGGCCATGTCTGGTCTGCATCTTTGGCGACGTCAGCTCAGCCCTGATCGGCCTCCGG
 AACCTGGTGTATGCCGCTCCGTGCCAGCAACTTTTATTACCATGAGCTCAAGCACATTGTG
 TTTGTGGGCTCTATTGAGTACCTCAAGCGGGAATGGGAGACGCTTCATAACTTCCCCAAA
 GTGTCCATATTGCCTGGTACGCCATTAAAGTCCGGGCTGATTTAAGGGCTGTCAACATCAAC
 CTCTGTGACATGTGCGTTATCCTGTGAGCAATCAGAATAATATTGATGATACTTCGCTG
 CAGGACAAGGAATGCATCTTGGCGTCACTCAACATCAAATCTATGCAGTTTGATGACAGC
 ATCGGAGTCTTGAGGCTAATTTCCAAGGGTTCAACCTCCAGGAATGGATAGATCCTCT
 CCAGATAACAGCCCAGTGACCGGGATGTTACGTCAACCATCCATCACAACCTGGGGTCAAC
 ATCCCCATCATCACTGAACTAGTGAACGATACTAATGTTTCACTTTTGGACCAAGACGAT
 GATGATGACCCCTGATACAGAACTGTACCTCACGCAGCCCTTTGCCTGTGGGACAGCATT
 GCCGTCACTGTCTGACTCACTCATGAGCGCGACGTACTTCAATGACAATATCCTCACC
 CTGATACGGACCCCTGGTGACCGGAGGAGCCACGCCGAGCTGGAGGCTCTGATTGCTGAG
 GAAAACGCCCTTAGAGGTGGCTACAGCAACCCGACAGCACTGGCCAATAGGGACCGCTGC
 CGCGTGGCCAGTTAGCTCTGCTCGATGGGCCATTTGCGGACTTAGGGGATGGTGGTTGT
 TATGGTGTCTGTTCTGCAAAGCTCTGAAAACATATAATATGCTTTGTTTTGGAATTTAC
 CGGCTGAGAGATGCTCACCTCAGCACCCCTCAGTCAAGTGCACAAAGAGGTATGTATCACC
 AACCCGCCCTATGAGTTTGAAGCTCGTGCCGACGGACCTGATCTTCTGCTTAATGCAGTTT
 GACCACAATGCCGGCCAGTCCCGGGCCAGCCTGTCCCATTCCTCCCACTCGTTCGAGTCC
 TCCAGCAAGAAGAGCTCCTCTGTTCACTCCATCCCATCCAGCAAAACCGACAGAACCGG
 CCCAAGTCCAGGGAGTCCCGGGACAAACAGAAGTACGTGCAGGAAGAGCGGCTTTGA

Gene 144. >ENST0000311182 cDNA sequence

GCGGAGGGGGTGGAGGTTTGTCTCCGCTGTTTCATCTCTATGGCTGTGAGAGGTGGGCGG
 CTTTGACCGAGAGGCTGCTGGAGCTCGTGTTTGGACGCGATGTTTCGTCTGAACTCACTT
 TCTGCTTTGGCAGAACTGGCTGTGGGTTCTCGATGGTACCATGGAGGATCACAGCCCATC
 CAGATCCGGCGAAGACTAATGATGGTGGCTTTCTGAGGAGCATCTGCAGTAACTGCAAGT
 ACTGGTCTTTTGTGGAAGAGGGCCCATGCAGAATCTCCACCATGTGTAGACAACCTAAAA
 AGTGACATCGGTGATAAAGGGGAAGAATAAAGATGAAGGGGATGTTTGTAAACCATGAGAAA
 AAGACTGCAGATCTTGCCCTCACCCAGAAGAGAAAAAGAAACGTTCTGGATTTCAGA
 GACAGAAAAGTGATGGAATATGAGAATAGGATTCGAGCCTACTCCACGCCAGACAAAATC
 TTCCGATATTTTGCCACCTTGAAAGTCATCAGTGAGCCTGGTGAAGCAGAAGTGTATTATG
 ACACCAGAAGATTTTGTGCGATCCATAACACCCAATGAAAAACAACAGAACCTTGGGT
 CTGGATCAATATATAATAAAACGCTTTGATGGAAAGAAAATTTCCAGGAACGAGAAAAA

FIGURE 1 (CONT'D)

TTTGCTGATGAAGGCAGTATATTTTACACCCCTGGAGAATGTGGGCTCATATCCTTTTCA
 GACTACATTTTCTCACAACCTGTTCTTTCCACTCCTCAGAGAAATTTTGAAATTGCCTTC
 AAGATGTTTGAATTTGAATGGAGATGGAGAAGTAGATATGGAAGAATTTGAACAGGCAAGT
 TGTCTGGAGACATCATTGCTCCCAAACAGTATGGGTATGCGCCACAGAGATCGTCCA
 ACTACTGGCAACACCCTCAAGTCTGGCTTGTGTTGAGCCCTCACAACCTACTTTTTTGA
 GCTGATCTGAAGGGAAAGCTGACAATCAAAAACCTTCTCGAATTTGAGCGTAAACTGCAG
 CATGATGTTCTGAAGCTTGAGTTTGAACGCCATGACCCTGTGGATGGGAGAATTAAGT
 AGGCAGTTTGGTGGCATGCTACTTGCCTACAGTGGGGTGAGTCCAAGAAGCTGACCGCC
 ATGCAGAGGCAGCTCAAGAAGCACTTCAAAGAAGGAAAGGGTCTGACATTTGAGGAGGTG
 GAGAACTTCTTTACTTTCTTAAAGAACATTAATGATGTGGACACTGCATTGAGTTTTTAC
 CATATGGCTGGAGCATCTCTTGATAAAGTGACCATGCAGCAGGTGGCCAGGACAGTGGCT
 AAAGTGGAGCTCTCAGACCACGTGTGTGATGTGGTGTGTTGCACTCTTTGACTGTGATGGC
 AATGGCGAACTGAGCAATAAGGAATTTGTTTCCATCATGAAGCAACGGCTGATGAGAGGC
 CTGGAAAAGCCCAAAGACATGGGTTTTCACTCGCCTCATGCAGGCCATGTGGAAATGTGCA
 CAGGAAACTGCCTGGGACTTTCGCTTTACCCAAACAGTAACCCACACTGCAAGAGGGGAC
 CCTCCACCCCCAGTACCCTGGACCCCTCCGCAGAGTCTCGGCAGAGCCCTTTGTGCTG
 CTGCTTCTGGAAGTAGTCCCCCTTCTCCCGGGATGACCTCAGGACTCTGTGCGTTTTCCC
 CTCTTTACCTTCCCCGTCCCCGTGTTCTGCTGGGCTCTGATTCTGCCAATGAGTATCC
 CCATAGGTTCTCAAAAACATGAACAAGTCTGTAAAGCTCAGACATTTGTCAGCCTCAACA
 GCACCACCCATTCAAGCATCCTGTGGATAAAGAATTGAGGGAACCATCCACACACCTGCC
 AACCTGGGAAGCATCCAGTTCTCAAATCGTTTTTGGCTATGGATTATACTAAACAAGAAC
 ATTCCTTGACTTCCCTCCTGCTGGTGTGTTTAAAGCCACAAGTAGGGAAGATATCTGGCAG
 GCAGAAAGAAGTCTGTGATGATAAACAATGATGAGGATGACCTAGGCACCTACGCTAGT
 GTGAGAAGCCTGCGCCCCAGGAAGGATCTGTGTTAGTCCCTGGGATGGCTCCAAGGCCTG
 CTCTAGGAAGGCAGCATGCTCAGTGGGAACACAGCAAGATTGAGAATTTAAAGTAGTTGC
 TTCATGGCTCTGTGCACTCCCTTTTCTTCTCGCAGCCTCCCTAAGATGACTCCAGTGTG
 ACCCTGTGCTTAGTGAGCAATAGTGATTGAGCTCATGTTCCCTGCAAGTGCCATTTCTCTC
 TCCAGGATGGGCCTCTAAAGCTGAGGCCTGGCTCAGAGCCTGTTTGCCCTCTGTCTTAAA
 CAATTGTAAATATCACTTAAATTATAACCATTTGCAATAAACATCCCCAAAGTT

Gene 145. >ENST00000277916 cDNA sequence

GGAGACCGGGTTGGGCTGTGACGCTGCTGCTGGGGTCAAGTGTATACCCAGGCTATCC
 CCCAACAGGCTACCCACCTTTCCCTGGATATCCTCCTGCAGGTGAGGAGTCACTTTTCC
 CCCTTCTGGTCAGTATCCTTATCCTAGTGGCTTTCTCCTCAATGGGAGGAGGTGCCTACCC
 ACAAGTGCCAAAGTAGTGGCTACCCAGGAGCTGGAGGCTACCTGCGCCTGGAGGTTATCC
 AGCCCTGGAGGCTATCCTGGTGCCCCACAGCCAGGGGGAGCTCCATCCTATCCCGGAGT
 TCCTCCAGGCCAAGGATTTGGAGTCCACCAGGTGGAGCAGGCTTTTCTGGGTATCCACA
 GCCACCTTCACAGTCTTATGGAGGTGGTCCAGCACAGGTTCCTACTACCTGGTGGCTTTCC
 TGGAGGACAGATGCCTTCTCAGTATCCTGGAGGACAACCTACTTACCCTAGTCAGATCAA
 TACAGATTCTTTTTCTTCTATCCTGTTTTCTCTCCTGTTTCTTTGGATTATAGCAGTGA
 ACCTGCCACAGTGACTCAGGTCACTCAAGGAACTATCCGACCAGCTGCCAACTTCGATGC
 TATAAGAGATGCAGAAATTTCTCGTAAGGCAATGAAGGGTTTGGGAAGATGAGCAGGC
 AATTGTGGATGTGGTGGCCAACCGTTCCAATGATCAGAGGCAAAAATTAAGCAGCATT
 TAAGACCTCCTATGGCAAGGATTTAATCAAAGATCTCAAATCAGAGTTAAGTGGAAATAT
 GGAAGAACTGATCCTGGCCCTCTTCATGCCTCCTACGTATTACGATGCCTGGAGCTTACG
 GAAAGCAATGCAGGGAGCAGGAACTCAGGAACGTGTATTGATTGAGATTTTGTGCACAAG
 AACAAATCAGGAAATCCGAGAAATTTGTGAGATGTTATCAGTCAGAATTTGGACGAGACCT
 TGAAGAGGACATTAGGTGAGATACATCAGGACATTTTGAACGTTTACTTGTGTCCATGTG
 CCAGGGAATCGTGATGAGAACAGAGTATAAACCAACCAATGGCTCAGGAAGATGCTCA
 GCGTCTCTATCAAGCTGGTGAGGGGAGACTAGGGACCGATGAATCTTGCTTTAAATGAT
 CCTTGCCACAAGAAGCTTTCTCAGCTGAGAGCTACCATGGAGGCTTATTCTAGGATGGC
 TAATCGAGACTTGTTAAGCAGTGTGAGCCGTGAGTTTTCCGGATATGTAGAAAGTGGTTT
 GAAGACCATCTTGCAAGTGTGCCCTGAACCGCCCTGCCTTCTTTGCTGAGAGGCTCTACTA
 TGCTATGAAAGGTGCTGGCACAGATGACTCCACCCTGGTCCGATTGTGGTCACTCGAAG
 TGAGATTGACCTTGTACAAATAAAACAGATGTTGCTCAGATGTATCAGAAGACTCTGGG

FIGURE 1 (CONT'D)

CACAATGATTGCAGGTGACACGAGTGGAGATTACCGAAGACTTCTTCTGGCTATTGTGGG
CCAGTAGGAGGGATTTTTTTTTTTTAAATGAAAAAAATTTCTATTATAGCTTATCCTT
CAGAGCAATGACCTGCATGCAGCAATATCAAACATCAGCTAACCGAAAGAGCTTTCTGTC
AAGGACCGTATCAGGGTAATGTGCTTGGTTTGACATGTTGTTATTGCCTTAATTCTAAT
TTTATTTTGTCTCTACATACAATCAATGTAAAGCCATATCACAATGATACAGTAATATT
GCAATGTTTGTAAACCTTCATTCTTACTAGTTTCATTCTAATCAAGATGTCAAATTGAAT
AAAAATCACAGCAATCTCTGATTCTGTGTAATAATATTGAATAATTTTTTAGAAGGTTAC
TGAAAGCTCTGCCTTCCGGAATCCCTCTAAGTCTGCTTGATAGAGTGGATAGTGTGTTAA
AACTGTGTACTTTAAAAAAAATTCAACCTTTACATCTAGAATAATTTGCATCTCATTTT
GCCTAAATTGGTTCTGTATTATATAAACACTTTCCACATAGAAAATAGATTAGTATTACCT
GTGGCACCTTTTAAGAAAGGGTCAAATGTTTATATGCTTAAGATACATAGCCTACTTTTT
TTTCGCAGTTGTTTTT

Gene 146. >ENST00000260852 cDNA sequence

GGAGACCGGGTTGGGCTGTGACGCTGCTGCTGGGGTCAGAATGTCATACCCAGGCTATCC
CCCAACAGGCTACCCACCTTTCCCTGGATATCCTCCTGCAGGTCAGGAGTCATCTTTTCC
CCCTTCTGGTCAGTATCCTTATCCTAGTGGCTTTCTCCAATGGGAGGAGGTGCCTACCC
ACAAGTGCCAAGTAGTGGCTACCCAGGAGCTGGAGGCTACCTGCGCCTGGAGGTTATCC
AGCCCCCTGGAGGCTATCCTGGTGCCCCACAGCCAGGGGGAGCTCCATCCTATCCCGGAGT
TCCTCCAGGCCAAGGATTTGGAGTCCCACCAGGTGGAGCAGGCTTTTCTGGGTATCCACA
GCCACCTTTCACAGTCTTATGGAGGTGGTCCAGCACAGGTTCCACTACCTGGTGGCTTTCC
TGGAGGACAGATGCCTTCTCAGTATCCTGGAGGACAACCTACTTACCCTAGTCAGCCTGC
CACAGTGACTCAGGTCACTCAAGGAACTATCCGACCAGCTGCCAACTTCGATGCTATAAG
AGATGCAGAAATTCTTCGTAAGGCAATGAAGGGTTTTGGGACAGATGAGCAGGCAATTGT
GGATGTGGTGGCCAACCGTTCCAATGATCAGAGGCCAAAAATTAAAGCAGCATTAAAGAC
CTCCTATGGCAAGGATTTAATCAAAGATCTCAAATCAGAGTTAAGTGGAAATATGGAAGA
ACTGATCCTGGCCCTCTTCATGCCTCCTACGTATTACGATGCCTGGAGCTTACGGAAAGC
AATGCAGGGAGCAGGAACTCAGGAACGTGTATTGATTGAGATTTTGTGCACAAGAACAAA
TCAGGAAATCCGAGAAATTGTGAGATGTTATCAGTCAGAATTTGGACGAGACCTTGAAAA
GGACATTAGGTGAGATACATCAGGACATTTTGAACGTTTACTTGTGTCCATGTGCCAGGG
AAATCGTGATGAGAACAGAGTATAAACCCAAATGGCTCAGGAAGATGCTCAGCGTCT
CTATCAAGCTGGTGAGGGGAGACTAGGGACCGATGAATCTTGCTTTAATCATGATCCTTGC
CACAAGAAGCTTTCTCAGCTGAGAGCTACCATGGAGGCTTATTCTAGGATGGCTAATCG
AGACTTGTTAAGCAGTGTGAGCCGTGAGTTTTCCGGATATGTAGAAAGTGGTTTTGAAGAC
CATCTTGACAGTGTGCCCTGAACCGCCCTGCCTTCTTTGCTGAGAGGCTCTACTATGCTAT
GAAAGGTGCTGGCACAGATGACTCCACCCTGGTCCGGATTGTGGTCACTCGAAGTGAGAT
TGACCTTGTAACAATAAAACAGATGTTGCTCAGATGTATCAGAAGACTCTGGGCACAAT
GATTGCAGGTGACACGAGTGGAGATTACCGAAGACTTCTTCTGGCTATTGTGGGCCAGTA
GGAGGGATTTTTTTTTTTTAAATGAAAAAAATTTCTATTATAGCTTATCCTTCAGAGC
AATGACCTGCATGCAGCAATATCAAACATCAGCTAACCGAAAGAGCTTTCTGTCAAGGAC
CGTATCAGGGTAATGTGCTTGGTTTGACATGTTGTTATTGCCTTAATTCTAATTTTATT
TTGTTCTCTACATACAATCAATGTAAAGCCATATCACAATGATACAGTAATATTGCAATG
TTTGTAAACCTTCATTCTTACTAGTTTCATTCTAATCAAGATGTCAAATTGAATAAAAAAT
CACAGCAATCTCTGATTCTGTGTAATAATATTGAATAATTTTTTAGAAGGTTACTGAAAG
CTCTGCCTTCCGGAATCCCTCTAAGTCTGCTTGATAGAGTGGATAGTGTGTTAAACTGT
GTACTTTAAAAAAAATTCAACCTTTACATCTAGAATAATTTGCATCTCATTTTGCCTAA
ATTGGTTCTGTATTATATAAACACTTTCCACATAGAAAATAGATTAGTATTACCTGTGGCA
CCTTTTAAGAAAGGGTCAAATGTTTATATGCTTAAGATACATAGCCTACTTTTTTTTCGC
AGTTGTTTTT

Gene 147. >ENST00000319786 cDNA sequence

ATTGAACCTCTGCATTCCACAGGCAAGGTTTACCTAAAGCACAGGGTGGACTGAGAAG
AATTCTCATCATAGTTGGGAGCCATTGGATGCCCCAGAGGGTAAGCTGCAAGGCTCTAGG
TGTGACAACAGCAGTTGCAGCAAGCTCCCTCCACAAGAAGGAAGAGGCATTGCTCAAGAA
CAGCTGTTCCAAGAAAAGAAGGATCCTGCTAACCCCTCCCCGGTGATGCCTGGAATAGCC
ACCTCTGAGAGGGGTGATGAACACAGCCTAGGCTGTAGTCCTTCAAATTCATCAGCTCAG

FIGURE 1 (CONT'D)

CCCAGCCTTCCCCTGTATAGAACCTGCCACCCATAATGCCTGTTGCTTCTTCATTTGTG
CTTCACTGTCCTGATCCTGTGCAGAAAATAACCAATGCCTCCAAGGCCAAAGCCTCAAA
ACTTCATTGACTTTAAAGTGGACAGAGGCAGTGAGGAGACCTATAGGCCAGAGTTTCCC
AGCACAAGGGGCTTGTCCGTTCTCTGGCTGAGCAGTTCAGAGGATGCAGGGTGTCTCC
ATGAGGGATAGTACAGGTTTCAAGGATAGAAGTTTGTGAGGTAGTCTAAGGAAGAAGTCT
TCCCCCTTCTGATTCTAAGCCTCCTTTCTCACAGGGTCAAGAGAAAGGCCACTGGCCATGG
GCAAAGCAA CAATCCTCTCTGGAGGGTGGGGATAGACCACTTTCCTGGGAAGAGTCCACT
GAACATTCTTCTCTTGCCTTAAACTCTGGGCTGCCTAATGGTGAAACTTCTAGCGGAGGA
CAGCCCAGGTTGGCAGAGCCAGACATATACCAAGAGAAGCTGTCCAAGTGAGAGATGTT
AGGTCTAAGGATCTGGGCAGCAGTACTGACTTGGGGACTTCTTGCCTTTGGATTCTGG
GTGAATATCAAAAGTTCTGTGATTCTCAGCTTAAGCATGGGGCACCTAGGCCAGGAATG
AAGTCTCCCCCTCATGATTCCCATACGTGTGTAACTATCCAGAGAGAAATCACATCCTT
TTGCATCCACATTGGAACCAAGACACAGAGCAGGAGACCTCAGAATTGGAGTCTCTGTAT
CAGGCCAGTCTTCAGGCTTCTCAAGCTGGCTGTTCTGGATGGGGGAGGAGGTTGCACTCAGCC
TGGCACCCACTTAGCCAAACAGGCTCTGCAGATGGCATGGGGAGGAGGTTGCACTCAGCC
CATGATCCTGGTCTCTCAAAGACTTCAA CAGCAGAAATGGAGCATGGTCTCCATGAAGCC
AGAACAGTGCGTACTTCTCAGGATTCTCAAACGTGAGGAAGCCTTTGGAAACCGGGCAC
CGTTGTTCCAGCTCCTCTTCCCTCCCTGTATCCATGACCCTTCTGTGTTTCTCCTCGGT
CCCCAACTCTACCTTCCCCAACCACAGTTCTGTCCCAGATGTCCTGATGCCACCATG
GCAGGGGAGCCCAATAGACTCCCAGGAACCTTCAAGGAGTGTCAGCAGTTTCTGGCTATG
TGTGACAGGGGTGAAACTTCCAAGGGGCCAAGTACACAGGAAGGACTTTGAACTACCAG
AGCCTCCCCCATCGCTCCAGAACAGACAACCTCCTGGGCACCTGGTCAGAGACCAACCAG
CATATTGGGACCAGATTCTGACTACTCCAGGGTGCAATCCTCAA CTAACCTACACTGCC
ACACTACCAGAAAGAAGCAAGGGCCTTCAGGTTCTCTCACTCAGTCTGGAGTGATCTT
TTCCATTACCCCTCCCACCTCCCATTGTTTCATCCTGTGTACCCACCATCTAGCAGTCTT
CATGTACCCCTGAGGTGAGCTTGGAAATTCAGATCCTGTTCCAGGGTCCCGAACCCCTGGT
CCTCGAAGAGTAGATATGCCCCAGATGATGACTGGAGGCAAAGCAGTTATGCCTCCCAC
TCTGGACACAGGAGAACAGTGGGAGAGGGGTTTCTGTTTGTCTATCAGATGCTCCCAGA
AGAGAGCAGATCAGGGCTAGAGTCTTGCAGCACAGTCAATGGTAAAGGTTATTCTTTTCC
TTTCTGGAGCTACACCTTTCTTTGTAAACTGTACTGTGGGCCGGGCGCGGTGGCTCAC
ACCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACGAGGTGAGGAGATTGA
GACCATCCTGGCCAACATGGTGAAACCCCGTCTCTACCAAAATACAAAAAATTAGCCAGG
CGTGACGGTGCGTGCCTGTAGTCCCACTACTCGGAAGGCTGAGGCAGGAGAATTGCTTG
AACCCGGGAGGCAGAGGTTGCAGTGAGCCGAGATCGCACCACTGCACTCCAGCTTGGCAA
TAGAGTGAGACTCCATCTCAAAAAACAAAAACAAACAAAAATAAACTACTGTGGC
AGCGTTGGTACCCTGCATCACTGCCATGGTTGTGCTATTCTCATCTCAACATAGAATTGG
TGGGTTCTCCTAAGGGTGTGAGGAACCTCTAAAAAGATGTGATTCTTTGGGAGGGGATAT
TTGAAATTCCAACTTCCATTCCCCCTAGCAAAAGGAAGCAGCTGCTGTTTAAGGGTTTTA
TCTGAGCCACTTTAAAGATGAATCCATGGTATTACTCTGGATACTAGCCATTCTTAGGA
TTTTAAGGTCACATTTTATTCTGGATGCTTTATGTCCCCACCTCCACCTGAGCCCTCAT
CCTCTGTTCCCTACTATACTCCCACTTCTACTCTTTGTTTTATCCACCTATCCCTATTA
CCTGACCCTTTGTCTTCCCTGTCTCCCATCCTTGGGGGACATGTAGCCCTGTGGTCATG
GTTCTGATGACATCATCAGGGCAGCCCCCTGCCAGGTATTATGGCCTGTGAGCATTCC
CTGTGCCCTCCAAACCTTAGGCCTAGAATGCGGAGCTGCCAACATAACATTCAACCTTTT
GAACAGATGGAGTCAGGCACACTAACACAGCCTTCTGTCTCAATAACACAGCCATTATT
GCCACTTGCTCAGTCGTCAATGTAAACCTCAGAGTCAGCTGAACTATTTTAGGCCAAAC
ATACTGTTTTTGTAAAGTATTTTTCATTAATAAATCTATAAGACAGTTCTATTT

Gene 148. >ENST00000310715 cDNA sequence

AGCTCAGCGTCTCGCTCCCTGCTCCCGGCCCCAGAGGGTATCGCGAGTCTTGGAATAAA
CTTGCTCGTGCGATGGCCAAAAAGACCAAAGAAAACAGAGGGACTTTTCCAGTTGGTGA
TATGGAGCAAGTGCCATCAGCAGGCAGACTCGTGAGATCACCGTGACAGAGGGATATGA
TTTGAAAGGTTTTAAAGGAGATACTCCAGTTACCTTTATTTCGAGCAGAATTCAATCAAGT
GGTCTGGGAGACTCTGCAAAAATTACTGTTTCTCCAGAAGGAAGTGCAAAATACAACTT
CACTAGCAGTTTTGAGTTAATCCTGAAGGAGGAATCACTTCAGATGACCTCGCTCACAA

FIGURE 1 (CONT'D)

ACCTGTGTTCTTAACTGTGACTGAAGTTTTACCAAAGGAAAAGAAAAGAGAAAGAGAGAA
 GACCTTAATTCTTGGTCAGGCTGTGGTGGACCTTCTTCCCTTACTGGAAGGACAGAGTTC
 ATTTCAAAACAACAGTTCATTGACCCCTGTGCAAGGCTCACCTTAGAACTCCTAGATC
 AAGTGCTAAGCAGTGCAGTCTTGAAGTTAAAGTATTAGTGGCAGAGCCTTACTGACCAC
 AGCCAGATCTCAGGGGGCAATCTACTGAAGGTACGTTGGAGGCTGCTTACTCTGTGCC
 TGAATCCTTCATTCCAACAGGTCTGGGCAGAACTACATGGTCTGGTCTGCAAGTTCATC
 ACTTGGAGAGAAGGACTATCCCATTTTATTTAAGAATGGAAGTCTGAAGCTTGGAGGGGA
 AAGGGAACCTGTTCCCCGGCCCCAAAAGTGGCCAATTGCCAACATTCTGGCTCCAGGAGC
 TAATAACATTCTGATGCATTATTGTTGGTGGTCCCTATGAAGAAGAAGAAGGAGAACT
 CAACCATCTGAGGACAGCGAATTTAGGAATCAAGCAGAGTGCATAAAGAAAAGGATTAT
 TTGGGACTTGGAAAGTCGCTGCTACCTTGATCCTTCTGCAGTGGTCAGTTTTTCAGAAGCG
 AATTGCCGATTGCCGGCTTTGGCCTGTAGAGATCACAAGAGTTCCTCTGGTCACTATACC
 CAAAGGGAAAGCTGGCAAACTGAAAAGACTGATGAAGAAGCTCAGCTTTCGTTTCATGG
 TGTGGCTTATGTTAATATGGTCCCATTGTTGTATCCAGGTGTGAAGAGAATTGGGGAGC
 TTTTCATGTTTACCCTTACCTAGACAGTGTAGTCCATGAAAAGACCAAATGTTTATTGAG
 CTTGTTCCGGGATATTGGCCATCACTTGATTATAATAATAAAATAGGAGGAATTAATTC
 TCTGCTGTCCAAACAAGCTGTTTCTAAGAATCTGAAAGAAGATAAAACAGTGAAAGAAAA
 GGATATAGATGGAAGGCCTAGGCCTGGGGATGTGCAGGCACCTAGTATAAAATCTCAGAG
 CTCAGATACTCCTTTGGAAGGTGAACCCCTCTAAGTCACAATCCTGAAGGACAGCAATA
 TGTAGAAGCAGGGACATACATTGTGTTGGAAATTCAGCTGGACAAAGCCTTGTTTCCAAA
 GCGAATGCCAGAGGAGCTAGCCAGAAGGGTCAAGGAAATGATTCTCCAAGGCCTCCTCT
 TACCCGTCGGA CAGGAGGAGCTCAGAAGGCAATGAGTGACTACCACATACAGATCAAGAA
 TATTTCTAGAGCCATTCTAGATGAATACTACAGAATGTTTGGAAAAAGGTTGGCCAACT
 GGAGAGTGATATGGATAGTGAAACCTTGGAGGAGCAGAAGTGCCAGCTCAGCTATGAACT
 TAATTGCTCTGGAAAATACTTTGCTTTCAAAGAACAACCTCAAGCATGCTGTGGTAAAGAT
 TGTGAGAGATAAATACTTGAAGACAACATCATTTTGAAGCCAGGAGGAACTTCAGACATT
 TATCAGTGAGCTCTATGTGTTCTTAGTAGATCAGATGCATGTAGCCCTAAACAGACCAT
 GCCAGATGATGTCCAAGGCACTGTTGCAACCATTTATACAAGCAGTGAACAGCTTCAACT
 CTTTGCATTTGAAGCAGAAGTCAATGAGAACCTTTGAGATGGCAGCAGCATATTATAAAGA
 GAGATTGGTCCGTGAGCCCCAGAATCTGGATCACTGGTTGGACTATGGTGCCTTCTGCCT
 CCTAACTGAAGACAACATCAAAGCACAGAGTGTTCAGAAAAGCCCTTTCCCTCAACCA
 GAGTCATATCCACAGCTTGTTGCTGTGTGGTGTCTGGCTGTCTGTTGGAGAACTATGA
 GCAAGCAGAAATTTCTTTGAGGATGCTACTTGCTTGGAAACCACTAATGTTGTAGCCTG
 GACTTTACTTGGTTTGTACTATGAAATTCAAAACAATGATATTGCAATGGAAATGGCATT
 TCATGAGGCCTCCAAAAGCTTCAGGCACGGATGCTTCAGGCACAAGTAACAAAGCAAAA
 GAGCACTGGTGTAGAAGACACTGAGGAAAGAGGGAAGAGAGAATCTAGTTTAGGCCCTTG
 GGAATCAAAATGGTTCTGCAACAGCAATCAAGGTGGAAGCCCAGCAGGACCAGGAGC
 TGCATTATCTATTCTAGACAAATTTCTTGAAGAATCCTCCAACTGCAGTCTGATTACA
 AGAACCCATTTTGACTACACAACTTGGGATCCAAGTATAAGCCAAAAACCATCTAACAC
 ATTTATCAAGGAGATACCAACAAAGAAAGAAGCATCAAAATGTCAAGATTCTCAGCTCT
 TCTGCATCCCGGCCTTCATTATGGTGTTCCTCAAACTACCACCATCTTCATGGAGACCAT
 ACATTTCTTGATGAAAGTCAAGGCTGTGCAGTATGTGCACAGAGTGCTTGCACATGAGCT
 GTTATGCCCTCAAGGAGGCCCCAGCTGTGAATATTACTTGGTGTCTGGCCCAACACACAT
 TCTTAAGAAGAACTTTGCCAAGGCAGAGGAATACCTTCAACAAGCAGCCAGATGGACTA
 CCTGAACCCCAATGTCTGGGGCTGAAGGGCCATCTCTATTTTCTGAGTGGAAATCATTC
 TGAGGCCAAGGCATGCTATGAACGAACCATTAGCTTTGTAGTGGATGCTTCTGAGATGCA
 CTTTCATCTTCTGAGACTGGGGCTCATCTATCTGGAAGAGAAAGAGTATGAAAAGGCAA
 GAAAACCTATATGCAAGCCTGTAAGAGATCACCTTCATGCCTTACCTGGCTAGGACTGGG
 AATCGCCTGCTATCGGCTGGAGGAGCTCACAGAGGCTGAGGATGCTCTTCTGAAGCAA
 TGCATTGAACAACTACAATGCTGAAGTATGGGCATATCTGGCTCTGGTCTGCCTGAAAGT
 TGGACGGCAATTAGAAGCTGAGCAGGCCTACAAGTACATGATCAAGCTGAAATTGAAAGA
 TGAGGCTCTGCTTGAGAGATCCACACACTACAGGAAAAGTGGCTTTGGAAATCCATC
 TTTCTGATACCCCTCCAGCTGAACAATTTCTGCATGGGACTCTGAGTTCCTTTCTTCC
 CAGAGAGTTTTACCGTATGAAGCCTGGAGCTGGAGAACGAAAGAATCTTCACTATAAACA

FIGURE 1 (CONT'D)

GAGACCCATT CATTTATTTCCATTGGCTGTGTTACTGGATGTTTTACTGGTTGACGAGAA
ACTGGGTCACAATAAAAAAATGGAGATATGAAACTC

Gene 149. >ENST00000286530 cDNA sequence

CAGGAGGAAC TTCAGACATTTATCAGTGAGCTCTATGTGTTCTTAGTAGATCAGATGCAT
GTAGCCCTTGACAAGACCATGCCAGATGATGTCCAAGGCACTGTTGCAACCATTTATACA
AGCAGTGAACAGCTTCAACTCTTTGCATTTGAAGCAGAAGTCAATGAGAACTTTGAGATG
GCAGCAGCATATTATAAAGAGAGATTGGTCCGTGAGCCCCAGAATCTGGATCACTGGTTG
GACTATGGTGCCTTCTGCCTCCTAACTGAAGACAACATCAAAGCACAAGAGTGTTCAG
AAAGCCCTTTCCCTCAACCAGAGTCATATCCACAGCTTGTTGCTGTGTGGTGTCTGGCT
GTCCTGTTGGAGA ACTATGAGCAAGCAGAAATTTCTTTGAGGATGCTACTTGCTTGGA
CCA ACTAATGTTGTAGCCTGGACTTTACTTGGTTTGTACTATGAAATTCAAAACAATGAT
ATT CGAATGGAATGGCATTT CATGAGGCCTCCAAACAGCTTCAGGCACGGATGCTTCAG
GCACAAGTAA CAAAGCAAAGAGCACTGGTGTAGAAGACACTGAGGAAAGAGGGAAGAGA
GAATCTAGTTT TAGGCCCTTGGGGAATCACAATGGTTCTGCAACAGCAATCAAGGTGGAA
GCCCCAGCAGGACCAGGAGCTGCATTATCTATTCTAGACAAATTTCTTGAAGAATCCTCC
AAACTGCAGTCTGATT CACAAGAACCATT TTTGACTACACAACTTGGGATCCAAGTATA
AGCCAAAACCATCTAACACATTTATCAAGGAGATACCAACAAAGAAAGAAGCATCAAAA
TGTCAAGATT CATCAGCTCTTCTGCATCCCGGCCTTCATTATGGTGTTCCTCAAAC TACC
ACCATCTTCATGGAGACCATA CATTCTTGATGAAAGTCAAGGCTGTGCAGTATGTGCAC
AGAGTGCTTGACATGAGCTGTTATGCCCTCAAGGAGGCCCCAGCTGTGAATATTACTTG
GTGCTGGCCCAAACACACATTCTTAAGAAGAACTTTGCCAAGGCAGAGGAATACCTTCAA
CAAGCAGCCCAGATGGACTACCTGAACCCCAATGTCTGGGGCCTGAAGGGCCATCTCTAT
TTTCTGAGTGGAATCATTCTGAGGCCAAGGCATGCTATGAACGAACCATTAGCTTTGTA
GTGGATGCTTCTGAGATGCATT CATCTTCCTGAGACTGGGGCTCATCTATCTGGAAGAG
AAAGAGCTGGAGGAGCTCACAGAGGCTGAGGATGCTCTTTCTGAAGCCAATGCATTGAAC
AACTACAATGCTGAAGTATGGGCATATCTGGCTCTGGTCTGCCTGAAAGTTGGACGGCAA
TTAGAAGCTGAGCAGGCCTACAAGTACATGATCAAGCTGAAATTGAAAGATGAGGCTCTG
CTTG CAGAGATCCACACACTACAGGAAACAGTTGGCTTTGGAAATCCATCTTTCTGATAC
CCCTCCAGCTGAACAATTTTCTGCATGGGACTCTGAGTTCCTTTCTTCCCAGAGAGTTT
TACCGTATGAAGCCTGGAGCTGGAGAACGAAAGAATCTTCACTATAAACAGAGACCCATT
CATTTATTTCCATTGGCTGTGTTACTGGATGTTTTACTGGTTGACGAGAAACTGGGTAC
AATAAAAAAATGGAGATATGAAACTC

Gene 150. >ENST00000265920 cDNA sequence

TTGGCTCTGGTAGCCGCGCCGCCCCGCCCCAACCCCGCCCGGCCAGAGCCTAGCCGAGC
CCCGGGCC CAGCATGGCCGCCCCGAGCCGGCCCGGGCTGCACCGCCCCACCCCGCCCC
CCGCCGCCCCCTCCCGGGGCTGACCGCGTCTGTCAAAGCTGTCCCTTTCCCCCAACACAT
CGCTTGACATCTGAAGAAGTATTTGATTTGGATGGGATACCCAGGGTTGATGTTCTGAAG
AACC ACTTGGTGAAAGAAGGTCGAGTAGATGAAGAAATTGCGCTTAGAATTATCAATGAG
GGTGTGCCATCCTTCGGAGAGAGAAAACCATGATAGAAGTAGAAGCTCCAATCACAGTG
TGTGGTGACATCCATGGCCAATTTTTTGGATCTGATGAAACTTTTTGAAGTAGGAGGATCA
CCTGCTAATACACGATACCTTTTTCTTGGCGATTATGTGGACAGAGGTTATTTTAGTATA
GAGTGTGTCTTATATTTATGGGTTCTGAAGATTCTATACCCAAGCACATTATTTCTTCTG
AGAGGCAACCATGAATGCAGACACCTTACTGAATATTTTACCTTTAAGCAGGAATGTAAA
ATTAAGTATTCGGAAGAGTCTATGAAGCTTGATGGAAGCTTTTGATAGTTTGCCTCTT
GCTGCACTTTTAAACCAACAGTTTCTTTGTGTT CATGGTGGACTTTTACCAGAAATACAC
ACACTGGATGATATTAGGAGATTAGATAGATTCAAAGAGCCACCTGCATTTGGACCAATG
TGTGACTTGTTATGGTCCGATCCTTCTGAAGATTTTGGAAATGAAAAATCACAGGAACAT
TTTAGTCACAATACAGTTCGAGGATGTTCTTATTTTTATAACTATCCAGCAGTGTGTGAA
TTTTTGCAAAACAATAATTTGTTATCGATTATTAGAGCTCATGAAGCTCAAGATGCAGGC
TATAGAATGTACAGAAAAAGTCAAAC TACAGGGTTCCCTTCATTAATAACAATTTTTTCG
GCACCTAATTACTTAGATGTCTACAATAATAAAGCTGCTGTATTAAAGTATGAAAATAAT
GTGATGAATATTCGACAGTTTAACTGTTCTCCACATCCTTACTGGTTGCCTAATTTTATG
GATGTCTTCACGTGGTCTTTACCGTTTGTGGAGAAAAAGTGACAGAAATGTTGGTAAAT
GTTCTGAGTATTTGCTCTGATGATGAACTAATGACTGAAGGTGAAGACCAGTTTGATGTA

FIGURE 1 (CONT'D)

GGTTCAGCTGCAGCCCGGAAAGAAATCATAAGAAACAAAATTCGAGCAATTGGCAAGATG
GCAAGAGTCTTCTCTGTTCTCAGGGAGGAGAGTGAAAGTGTGCTGACACTCAAGGGCCTG
ACTCCACAGGGATGTTGCCCTAGTGGAGTGTTAGCTGGAGGACGGCAGACCCTGCAAAGT
GCAATACGAGGATTCTCTCCACCACATAGAATCTGCAGTTTTGAAGAGGCAAAGGGTTTG
GATAGGATCAATGAGAGAATGCCACCTCGGAAAGATGCTGTACAGCAAGATGGTTTCAAT
TCTCTGAAACCCGCACATGCCACTGAGAACCACGGGACGGGCAACCATCTGCCAGTGA
CCCACTACTTCCAGGGACTCTCACATCTCGGGCCCCAAATGGAAGATCAGGAGGAG
CTGGAGGGGTGCGCCAAGCTGACTGTAAATTTTACAGTCTCTCTGAAGAAACATTGTGC
TTCTGAGACCCTAGCCCCCTTCTGGATGGAGGCTTGAGGGCCCTGGGACATGTGCTATC
TGATAAGATTGGGTCATCGCTGCCAAGGTGGAGAGCAGTGAGCAAGGGGCTTGGGGCAAT
TTCCAGTGGAGGGCATCCACACCTCCATTTTATGCTTGTGGTTACACATTTAAGTTTAC
AAATCAGATTTCTTTTCCCTTCAGTAGAATTAGATTTTGTTTTTCAATCATGATTTCAA
ATGCAATCCTAAGAGCTAATGTGGACTTTTCTTTTTCATGAAATGTCTTTAAAGGATGA
ATTAGCATGGTCTTAAATACATTTCTGAGGTTACTAGCTGTATTTTGAATTGTGAGCAA
AATGCCGAGAAACCCAGTTGGCATTATATACAAAATGTTGACCTCAGGTCTATAGTTCTTA
AATGTGGCTAATTCTGTAAACATAGTCTTGGTATTTTTTAAATTGAATGCATATCCTATT
TCCAGGCAGGCTCTCTTACTTGAACACAAATCAGAAAATAATTTAGAGTCTTTTTTGCC
CAGATCTTTTAAAGACTTACACCCAGAGATTTAAGAAGAAAACCTCTAAATTTCAAAATT
ATGAAGAATTACAGAATTACTCATTTAAGGTACTTTAAAGAAGTTTGTACATTGTCAAA
GTAAATTTTAAATCAAATCATGTCTGTAAACTTGACGTATTTTGTGTATGCATGTTTTTC
ATTTTGCAAATATTTAATATATAGACCTATGATGTACAGGTACGACATGTATAGGTTACC
TAGATGTTATGAGAAATTTTAGTTTATTGTGAGTACTCAAGTTGCTTAGAGAGCCACCAG
GGTGATTTGCTGCTGGCTTTCTATCATTTTTATGTTTTAATGCAAAGGAAATTTTAAAT
GTTCTGGAAGTGTTTTTGATTAAAGCAATGCAGCCTAGAAGCAATGGTTCTGTTCAATCAT
TCAGATGTTAGTGAAGCATAAAGTCAAGACTGCATGTTGAAACCTTTCTTTTGATAGT
TACTGAACTGCTTGGTTAAACTAAATGGAACCATGTGCTAATTTTTTACAATTATTGACC
TGTATTGATTGCCACTGTAGTTTGGTATTTCCCTTTACTTTGGTGGCCTGCTTCCCTCAT
GCCCTGGAATACAACTCAGAGCTCCAGGCAGCGGAACCATCTATTGTTTTGTTTGCCAGA
AAGTGCACCCTGTATGGTCTCCTGTCTAAGTTGGAATATTATGCATGTGCAGGACTATT
CGAGTATTTTATAAACAGTAGCACACAATAAATTCATGCATGGGCCGCTGCTCCT

Gene 151. >ENST00000320361 cDNA sequence

GGGAAAGAGGGTCCGCCATGTTCCCCGGCGCGCCGCCGCTTGGCTCTGGTAGCCGCCGC
CCCCGCCCCCAACCCCCGCGCGCCAGAGCCTAGCCGAGCCCCGGGCCCAGCATGGCCGC
CCCGGAGCCGGCCCCGGGTGCACCGCCCCCACCCCCGCCCCCGCCCCCTCCCGGGC
TGACCGCGTCGTCAAAGCTGTCCCTTTCCCCCAACACATCGCTTGACATCTGAAGAAGT
ATTTGATTTGGATGGGATACCCAGGGTTGATGTTCTGAAGAACCACTTGGTGAAAGAAGG
TCGAGTAGATGAAGAAATTGCGCTTAGAATTATCAATGAGGGTGCTGCCATCCTTCGGAG
AGAGAAAACCATGATAGAAAGTAGAAGCTCCAATCACAGTGTGTGGTGACATCCATGGCCA
ATTTTTTGATCTGATGAACTTTTTGAAGTAGGAGGATCACCTGCTAATACACGATACCT
TTTTCTTGGCGATTATGTGGACAGAGGTTATTTTAGTATAGAGTGTGTCTTATATTTATG
GGTCTGAAGATTCTATACCCAAGCACATTATTTCTTCTGAGAGGCAACCATGAATGCAG
ACACCTTACTGAATATTTTACCTTTAAGCAGGAATGTAAAATTAAGTATTCGAAAGAGT
CTATGAAGCTTGTATGGAAGCTTTTGATAGTTTGCCTCTTGCTGCACTTTTAAACCAACA
GTTTCTTTGTGTTTCATGGTGGACTTTCACCAGAAATACACACTGGATGATATTAGGAG
ATTAGATAGATTCAAAGAGCCACCTGCATTTGGACCAATGTGTGACTTGTTATGGTCCGA
TCCTTCTGAAGATTTTGGAATGAAAATCAAGGAACATTTTAGTCAATAACAGTTTCG
AGGATGTTCTTATTTTATAACTATCAGCAGTGTGTGAATTTTGCAAAACAATAATTT
GTTATCGATTATTAGAGCTCATGAAGCTCAAGATGCAGGCTATAGAATGTACAGAAAAAG
TCAAACACAGGGTTCCCTTCATTAATAACAATTTTTTCGGCACCTAATTACTTAGATGT
CTACAATAATAAGCTGCTGTATTAAAGTATGAAAATAATGTGATGAATATTCGACAGTT
TAACTGTTCTCCACATCCTTACTGGTTGCCTAATTTTATGGATGTCTTCACGTGGTCTTT
ACCGTTTGTGGAGAAAAAGTGACAGAAATGTTGGTAAATGTTCTGAGTATTTGCTCTGA
TGATGAACTAATGACTGAAGGTGAAGACCAGTTTGATGGTTCAGCTGCAGCCCGGAAAGA
AATCATAAGAAACAAAATTCGAGCAATTGGCAAGATGGCAAGAGTCTTCTCTGTTCTCAG

FIGURE 1 (CONT'D)

GGAGGAGAGTGAAAGTGTGCTGACACTCAAGGGCCTGACTCCACAGGGATGTTGCCTAG
TGGAGTGTTAGCTGGAGGACGGCAGACCCTGCAAAGTGCCACAGTTGAGGCTATTGAGGC
TGAAAAAGCAATACGAGGATTCTCTCCACCACATAGAATCTGCAGTTTTGAAGAGGCAAA
GGGTTTTGGATAGGATCAATGAGAGAATGCCACCTCGGAAAGATGCTGTACAGCAAGATGG
TTTCAATTCTCTGAAACCCGCACATGCCACTGAGAACCACGGGACGGGCAACCATACTGC
CCAGTGACCCACTACTTCCCAGGGACTCTCACATCTCGGGCCCCAAATGGACAGATCACC
CGAGGAGCTGGAGGGGTGGGCCAAGCTGACTGTAAATTTACAGTCTCTCTGAAGAAACC
ATTGTGCTTCTGAGACCCTAGCCCCCTTCTGATGGAGGCTTGAGGGCCCTGGGACATG
TGCTATCTGATAAGATTGGGTCTCGCTGCCAAGGTGGAGAGCAGTGAGCAAGGGGCTTG
GGGCAATTTCCAGTGAGGGGCATCCACACCTCCATTTTATGCTTGTGGTTACACATTTA
AGTTTACAAATCAGATTTCTTTTCCCCTTCAGTAGAATTAGATTTTGTTTTTCAATCATG
ATTTCAAATGCAATCCTAAGAGCTAATGTGGACTTTTCTTTTTCATGAAATGTCTTTAA
AGGATGAATTAGCATGGTCTTAAAATACATTTCTGAGGTTACTAGCTGTATTTTGAATTG
TGAGCAAAATGCCGAGAAACCCAGTTGGCATTATACAAAATGTTGACCTCAGGTCTATA
GTTCTTAAATGTGGCTAATTCTGTAACATAGTCTTGGTATTTTTTAATTATGAATGCATA
TCCTATTTCCAGGCAGGCTCTCTTACTTGAACACAAATCCAAAACTAATTTAGAGTCTT
TTTTGCCCAGATCTTTTAAAGACTTACACCCAGAGATTTAAGAAGAAAACCTCTAAATTT
CAAAATTATGAAGAATTACAGAATTACTCATTTAAGGTACTTTAAAAGAAGTTTGTACAT
TGTCAAAGTAAATTTTAAATCAAATCATGTCTGTAAACTTGACGTATTTTGTGTATGCA
TGTTTTCATTTTGCAAATATTTAATATATAGACCTATGATGTACAGGTACGACATGTATA
GGTTACCTAGATGTTATGAGAAATTTTAGTTTTATTGTGAGTACTCAAGTTGCTTAGAGAG
CCACCAGGGTGATTTGCTGCTGGCTTTCTATCATTTTTATGTTTTAATGCAAAGGAAATT
TTAAATGTTCTGGAAGTGTTTTTGATTAAGCAATGCAGCCTAGAAGCAATGGTTCTGTT
CAATCATTCAGATGTTAGTGGAAGCATAAAAGTCAAGACTGCATGTTGAAACCTTTCTTT
TGATAGTTACTGAACTGCTTGGTTAAACTAAATGGAACCATGTGCTAATTTTTCACAATT
ATTGACCTGTATTGATTGCCACTGTAGTTTGGTATTTCCCTTTACTTTGGTGGCCTGCTT
CCCTCATGCCCTGGAATACAACTCAGAGCTCCAGGCAGCGGAACCATCTATTGTTTTGTT
TGCCAGAAAGTGACCCCTGTATGGTCTCCTGTCTAAGTTGGAAATATTATGCATGTGCAG
GACTATTCGAGTATTTTATAAACAGTAGCACACAATAAATTCCATGCATGGGCCGCTGCT
CCT

Gene 152. >ENST00000318641 cDNA sequence

CTGCGGTGCAGTCCTTGGTCTTTCTGGCAAGTGAGGCGCTCTCCCCCTAAATGTCTCAGA
GGGAGACAAATCAGCGGACTACCTTGCTTCCCTTTGATGACTTGGAAAGGATCTGCAGTCC
CCCTTAAAGCCCAAGAATGTCTTCTTCCACGACAGCCGTTTGTGGACACATACTGCTT
ACCTCCCTGACTGCAGGACAAGGTCTTCAAAGCTGGAACTCTGACTGCGCTCAGTGATC
CCGCAGTGCTCCTCTGTAGAGTGGGAACCCAGGTCCATTTCAAATATCTACGTTGGAATG
AGTGGATCTCGCTGGGGGTGAGAGGCACTTTGTCTACCCACACTGCCAGTCCCAGCCACA
TGCCCTCCTCCCTTCCCTCAAAAAGCAGTGTTCTTAGTCTGCTTCTTCAAGGGGAGAAGTC
GTTTTTATTTATGGAAACGAACTCACTATATGGTAGAAAGAACAAAGAGTATCAGAATTTG
CACTTTGGACTTGGACTCCCCCTCTAAGCAGCTGCACAAGGTGGAAACAAACCAATAATCCT
TGCTGATCTGTTTTGTCTTCTTAGGAAAAATGGTGGAGGGAGAATATTAGATCAGGGGTTCT
TAGCCTTGGCTTCATGAATAAGCTCAAGGATGTCAATGAAGCTTTTGACATGATCTCAAC
TTTTTTGTGAACATTTATATATTTTTCTGGAATGGGGTCCATAGAGTTACAAGTTCTTTA
AGACCTCCAGATGGACCCCAATATGGCAGAAATGAACTATTTAAAGATACTGCCTGCTC
CCGTAGTCTGACCCTCTATGGCTAAGCAAGGTTTTAGAGGAGTGGAAAGGCTGGCCATTGC
ACAGTATCAGGGTTCCAGACAGGCTCCCTGGCTCTTCCCTCCCAGTCTGCTCCTGAGAT
ATAGTTCTTTCTGGCCGCCACTTCCCTTAGGGCAACCCAGAGCTTAAATCATCTGCAAG
GCAGTACCTTTTCAGGCACCTTTTCATCCGGCACCTGTGTTCTTAGCTGGATTAACTAGAA
AGCTAGTTGGAGGAAGGAAGGTGAAAGTGGAGGAAGGGGAAAAGAGGAAAAGTTGGAGAC
GAATCTGGCTTATGGTTAGAAAGCATATTTTTTGGCCAGGCAAGTGGCTCACGCCTGTAA
TCCCAGCACTTTGGGAGGCTGAGGTAGGCGGATTGCCTGAGCTCAGGAGTTGGAGACCAG
CCTGGCCAACGTGGTAAAAACCCGTCTCTAACAAAAATACAAAATTTAGCCAGGCATGA
TGGTGCAAGCCTGTAATCCAGCTGTTTCAGGAGGCTGAGGCATGAGAATTGCTTGAAACC
AGGAGGTGGAGGTTGCAGTGAGCTGAAATTGCACCACTGCACTCCAGGCTGGGTGACCGA

FIGURE 1 (CONT'D)

GCAAGACTCTGTCTCAAAAAAAGAAAAAACTTATTTTTTGGAGACAGAGTCTCACTC
TGTGCGCCAGGCTGGATTGCAGTGGGGCAACACAGTTCAGTGCAGCCTCAATTTCTTGG
GCTCAAGCAACTATCCTGCCTCAGCCTCCCAGGAGTAGCTGGGATCATAGGTGCTTGCC
ACCACACCTGGCTAATTTTTTAAATATTTTGTAGACACAGGGTCTTGCCACATTGCCAG
GCTGGTCTTGAACCTCTGGGCTCAAGTTATCCTCCGCCTCGGTCTCCCAAAGTTCTGGA
ATTACAGATGTTAGTTACCAACCCGACCAATTTTAGGATTCTTTAGCCAGTGACCTTGG
TGTGACCTTGTACTTCTGCAGCATTATATACCTTCTGCGGCACACCCTTGTAGTGGGTCG
AATTGTGTTCCCCCAAAGATATGTTCTAGTCCTAATTCACAGTACCTGTGAATGTGACT
TATTTAGAAATAGGGTCTTTGCAGATGTAATCTAGTTCAAATGAGGTCATACTGGATTAG
GGCGGGTCTCATCCAATAACTGTTGTTCTTATTAGAATAGGGAAATTTGGATGCAGAGA
CACAGAGAAAATGCCATGTGAAGATGGATCAGAGACAGAAGTGATGCGGCTGCAAGCCAA
GGAATGTGAAGAATGGCCAGCCACCACCGGAAGCTAGGGGAGACGCCAGCACAGATTCTC
CCTGAGAGTATCCAGAAGAAACCAACCCTCCAACACCTGGATTT CAGACTTCTGACCTTG
AGAAGTGTGAGCCAATAAAACAACCTGCAGTGG

Gene 153. >ENST00000316258 cDNA sequence

ATGGCAGATGATTTGGACTTCGAGACAGGAGATGCAGGGGCTCAGCCACCTTCCCAATG
CAGTGCTCAGCATTACGTAAGAATGGCTTTGTGGTGCTCAAAGGCTGGCCATGTAAGATC
GTGGAGATGTCTGCTTCGAAGACTGGCAAGCACGGCCACGCCAAGGTCATCTGGTTGGT
ATTGACATCTTTACTGGGAAGAAATATGAAGATATCTGCCCGTCAACTCATAATATGGAT
GTCCCCAACATCAGAAGGAATGACTTC CAGCTGATTGGCATC CAGGATGGGTACCTATCA
CTGCTCCAGGACAGCGGGGAGGTACCAGAGGACCTTCGTCTCCCTGAGGGAGACCTTGGC
AAGGAGACTGAGCAGAAGTACGACTGTGGAGAAGAGATCCTGATCACGGTGCTGTCTGCC
ATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAATAA

Gene 154. >ENST00000287258 cDNA sequence

GACTCGGACCGCGGAGGTGAGCGGGAGCTGAGGCTGAGGAGAGGGGAGCTTGGGGGGCGC
CTGCTGCCAAGGGCAGCGGAGGAGGAAATGGCAGGTCCTAATCAACTCTGCATTGCGCGC
TGGACTACCAAGCATGTAGCTGTGTGGCTGAAGGATGAAGGCTTTTTTGAATATGTGGAC
ATTTTATGCAATAAGCACCGACTTGATGGAATCACATTGCTAACATTGACTGAATATGAT
CTCCGGTCTCCTCCTCTGGAAATCAAAGTCTTAGGGGACATTAAAAGGTTAATGCTCTCA
GTCGAAAATTG CAGAAAATACATATTGATGTTTTAGAAAGAGATGGGCTACAACAGTGAC
AGTCCCATGGGTTCCATGACCCCTTTTCATCAGTGCTCTTCAGAGTACAGACTGGCTCTGT
AATGGGGAGCTTTTCCATGACTGTGACGGACCCATAACTGACTTGAATTCTGATCAGTAC
CAGTACATGAATGGTAAAAACAAACATTCTGTTTGAAGATTGGACCCAGAATACTGGAAG
ACTATACTGAGTTGTATATATGTTTTTATAGTATTTGGATTTACATCTTTTATTATGGTT
ATAGTCCATGAGCGAGTGCCTGACATGCAGACCTATCCACCACTCCAGATATATTCTTA
GACAGCGTTTCTAGAAATCCCATGGGCCTTTGCCATGACGGAAGTATGTGGCATGATTCTG
TGCTATATTTGGCTCCTGGTTCTTCTTCTTCAAGCAAGGTCAATACTTCTGCGAAGG
CTCTGTAGTCTGATGGGAACTGTATTCTTGCTTCGCTGCTTTACCATGTTTGTGACCTCC
CTCTCCGTGCCAGGACAACACCTGCAGTGTACTGGAAAGATATATGGCAGTGTATGGGAG
AAATTACATCGAGCCTTTGCCATTTGGAGTGGCTTTGGTATGACCCTGACTGGCGTTTAC
ACATGTGGAGATTACATGTTTAGTGGCCACACAGTCGTCTAATATGCTGAATTTCTTT
GTCACCGAATGTAAGTATCTTTTTAGTGCTTCTATGCGTATTAGGTAA

Gene 155. >ENST00000260908 cDNA sequence

TTTCAGAAGAAATGGTACCAGCTCCTCTTTATGCCTCTGGTAGGATT CAGCTGTGAATCC
ATCGGGTCTTGGACTTTTTTGGTTGGTAGGCTAATAATTGCTACCTCAATTT CAGAACTT
GTTATTGGTCTATT CAGGGATTCAACTTCTTCTGGTTTAGTCTTGGGAGGGTGTATGTG
TCCAGGAACCTTACCATTTCTTCTAGATTCTTTAGTTTATTTGCATAG

Gene 156. >ENST00000302526 cDNA sequence

ATGGAGTCAATATATCTTCAAAAGCACCTTGGGGCTGTTTAACTCAAGGTCTTGCAGAA
GTGGCAAGAGTTCGCCCAGTGGATCCGATAGAATATTTAGCATTGTGGATTTACAAGTAT
AAGGAAAATGTGACCATGGAACTGAGACAAAAGGAAATGGCCAAGCTGGAGCGTGAA
AGAGAATTAGCTCTGATGGAGCAGGAAATGATGGAGAGGCTCAAAGCAGAGGAGCTCTTA
CTTCAGCAGCAACAGCTGGCATTGCAGCTAGAGTTGGAAATGCAAGAAAAGGAGAGGCAG
AGAATACAAGAACTACAGAGAGCTCAAGAACAATTAGGCAAGGAGATGAGAATGAATATG

FIGURE 1 (CONT'D)

GAAAATCTAGTTAGGAATGAAGATATTCTACATTCAGAGGAAGCAACACTAGACTCAGGC
 AAAACACTAGCTGAAATCAGCGATCGTTATGGAGCACCTAACTTGAGCAGAGTGGAAGAA
 CTTGATGAACCAATGTTTTCTGATGTCAGTATCAGTGTG

Gene 157. >ENST00000298468 cDNA sequence

GGTTGCGGCGGGCGGAACGGTGTCTCCTTCACTTCGCCCTCCAGCTGCTGGAGCTGCAGC
 CCGACCGCGAGCGTGCCAAGCGGCTTCAGCAGCTAGCGGAGCGGTGGCGGCGGCCCCCT
 CAGGACACCACCAGATTCCCCTCTTCCCGCGGCCTCGCCATGGCGACCCACGGACAGACT
 TGCGCGCGTCCAATGTGTATTCTCCATCATATGCTGACCTTGGCAAAGCTGCCAGAGAT
 ATTTTCAACAAAGGATTTGGTTTTGGGTTGGTGAAACTGGATGTGAAAACAAAGTCTTGC
 AGTGGCGTGGAATTTTCAACGTCCGGTTCATCTAATACAGACACTGGTAAAGTTACTGGG
 ACCTTGGAGACCAAATACAAGTGGTGTGAGTATGGTCTGACTTTACAGAAAAGTGGAAC
 ACTGATAACACTCTGGGAACAGAAATCGCAATTGAAGACCAGATTTGTCAAGGTTTGAAA
 CTGACATTTGATACTACCTTCTCACCACACAGGAAAGAAAAGTGGTAAATCAAGTCT
 TCTTACAAGAGGGAGTGTATAAACCTTGGTTGTGATGTTGACTTTGATTTTGTCTGGACCT
 GCAATCCATGGTTTCAGCTGTCTTTGGTTATGAGGGCTGGCTTGCTGGCTACCAGATGACC
 TTTGACAGTGCCAAATCAAAGCTGACAAGGAATAACTTTGCAGTGGGCTACAGGACTGGG
 GACTTCCAGCTACACACTAATGTCAATGATGGGACAGAATTTGGAGGATCAATTTATCAG
 AAAGTTTGTGAAGATCTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGC
 ACTCGTTTTTGGCATTGCAGCTAAATATCAGTTGGATCCCACTGCTTCCATTTCTGCAAAA
 GTCAACAACTCTAGCTTAATTGGAGTAGGCTATACTCAGACTCTGAGGCCTGGTGTGAAG
 CTTACACTCTCTGCTCTGGTAGATGGGAAGAGCATTAAATGCTGGAGGCCACAAGGTTGGG
 CTCGCCCTGGAGTTGGAGGCTTAATCCAGCTGAAAGAAAACCTTTGGGAATGGATATCAGA
 AGATTTGGCCTTAATATATTTCCATTGTGACCAGCAGCAGGCTTTTTTCCCCAAGAAGA
 TGATCAAAACAAAGGATGATCTCAACAAGAGCTGTATTTTAAGTATTTAGACAGTTCTTT
 GTTAGCTGGTTTTCTAGTTGGTTATCTAGTTACCAATGCTGCAGTCCTGCAGTCACCTATA
 CATTATTTAAATGTATTTAACTGTTAAATGCGCTACCCACCAATAATGAAATAGACCTTT
 ATGAAAACCTGTGCAATTGTGTGCATGTTTGTGTTTTATGTTCTTTAGAAAACATTGACTG
 TTACCATTGAATGAGATGGATCAGTGGATATTAAGATGAGGTTACAAATTTTGTAAAGTT
 CAGCCATTATTACTTTTGGTATCCCAGAACATGACAAATTATGAATAAAACAAGTATACA
 T

Gene 158. >ENST00000304595 cDNA sequence

GCTGCTGGAGCTGCAGCCCGACCGCGAGCGTGCCAAGCGGCTTCAGCAGCTAGCGGAGCG
 GTGGCGGCGGCCCCCTCAGGACACCACCAGATTCCCCTCTTCCCGCGGCCTCGCCATGG
 CGACCCACGGACAGACTTGCGCGCGTTCGATCGGATCAATCACTTTTCTAGAGGAAGTAGC
 AGTCCCTCTTGTGAGAGCGCAAGGTCATTACTTGTGCTCCTAAGGGCGTGGACGTGCTTT
 GTGGAATGAATGAGCTGGTGTAAATGAGCTCAGATTGCCTGCCCTTAAGCAGCACAGCATT
 GGCCGAGGACTTGAGAGTCACATTACAATGTGTATTCTCCATCATATGCTGACCTTGGC
 AAAGCTGCCAGAGATATTTTCAACAAAGGATTTGGTTTTGGGTTGGTGAAACTGGATGTG
 AAAACAAAGTCTTGAGTGGCGTGGAATTTTCAACGTCCGGTTCATCTAATACAGACACT
 GGTAAAGTTACTGGGACCTTGGAGACCAAATACAAGTGGTGTGAGTATGGTCTGACTTTT
 ACAGAAAAGTGGAACTGATAACACTCTGGGAACAGAAATCGCAATTGAAGACCAGATT
 TGTCAAGGTTTGAACTGACATTTGATACTACCTTCTCACCACACAGGAAAGAAAAGT
 GGTAAAATCAAGTCTTCTTACAAGAGGGAGTGTATAAACCTTGGTTGTGATGTTGACTTT
 GATTTTGTCTGGACCTGCAATCCATGGTTCAGCTGTCTTTGGTTATGAGGGCTGGCTTGCT
 GGCTACCAGATGACCTTTGACAGTGCCAAATCAAAGCTGACAAGGAATAACTTTGCAGTG
 GGCTACAGGACTGGGACTTCCAGCTACACACTAATGTCAATGATGGGACAGAATTTGGA
 GGATCAATTTATCAGAAAGTTTGTGAAGATCTTGACACTTCAGTAAACCTTGCTTGGACA
 TCAGGTACCAACTGCACTCGTTTTTGGCATTGCAGCTAAATATCAGTTGGATCCCACTGCT
 TCCATTTCTGCAAAAGTCAACAACTCTAGCTTAATTGGAGTAGGCTATACTCAGACTCTG
 AGGCCTGGTGTGAAGCTTACACTCTCTGCTCTGGTAGATGGGAAGAGCATTAAATGCTGGA
 GGCCACAAGGTTGGGCCCTGGAGTTGGAGGCTTAATCCAGCTGAAAGAAAACCTTTGGGAA
 TGGATATCAGAAGATTTGGCCTTAATATATTTCCATTGTGACCAGCAGCAGGCTTTTTTTC
 CCCCAGAAGATGATCAAAACAAAGGATGATCTCAACAAGAGCTGTATTTTAAGTATTTA
 GACAGTTCTTTGTTAGCTGGTTTCTAGTTGGTTATCTAGTTACCAATGCTGCAGTCCTGC

FIGURE 1 (CONT'D)

AGTCACCTATACATTATTTAAATGTATTTAACTGTTAAATGCGCTACCCACCAATAATGA
AATAGACCTTTATGAAAACTGTG

Gene 159. >ENST00000280867 cDNA sequence

ATGAATGGACCGGTGGATGGCTTGTGTGACCACTCTCTAAGTGAAGGAGTCTTCATGTTTC
ACATCGGAGTCTGTGGGAGAGGGACACCCGGATAAGATCTGTGACCAGATCAGTGATGCA
GTGCTGGATGCCCATCTCAAGCAAGACCCCAATGCCAAGGTGGCCTGTGAGACAGTGTGC
AAGACCGGCATGGTGTCTGTGTGTGGTGAGATCACCTCAATGGCCATGGTGGACTACCAG
CGGGTGGTGAGGGACACCATCAAGCACATCGGCTACGATGACTCAGCCAAGGGCTTTGAC
TTCAAGACTTGCAACGTGCTGGTGGCTTTGGAGCAGCAATCCCAGATATTGCCCAGTGC
GTCCATCTGGACAGAAATGAGGAGGATGTGGGGGAGGAGATCAGGGTTTGATGTTCCGGC
TATGCTACCGACGAGACAGAGGAGTGCATGCCCTCACCATCATCCTTGCTCACAAGCTC
AACGCCCCGATGGCAGACCTCAGGCGCTCCGGCCTCCTCCCTGGCTGCGGCCTGACTCT
AAGACTCAGGTGACAGTTCAGTACATGCAGGACAATGGCGCAGTCATCCCTGTGCGCATC
CACACCATCGTCATCTCTGTGCAGCACAAAGACATCACGCTGGAGGAGATGCGCAGG
GCCCTGAAGGAGCAAGTCATCAGGGCCGTGGTGCCGGCCAAGTACCTGGACGAAGACACC
GTCTACCACCTGCAGCCAGTGGGCGGTTTTGTCTCGGAGGTCCCAGGGGGATGCGGGT
GTCACTGGCCGTAAGATTATTGTGGACACCTATGGCGGCTGGGGGGCTCATGGTGGTGGG
GCCTTCTCTGGGAAGGACTACACCAAGGTAGACCGCTCAGCTGCATATGCTGCCCGCTGG
GTGGCCAAGTCTCTGGTGAAAGCAGGGCTCTGCCGGAGAGTGCTTGTCAGGTTTCCTAT
GCCATTGGTGTGGCCGAGCCGCTGTCCATTTTCATCTTCACCTACGGAACCTCTCAGAAG
ACAGAGCGAGAGCTGCTGGATGTGGTGCATAAGAACTTCGACCTCCGGCCGGGCGTCATT
GTCAGGGATTTGGACTTGAAGAAGCCCATCTACCAGAAGACAGCATGCTACGGCCATTTTC
GGAAGAAGCGAGTTCCTATGGGAGGTTCCAGGAAGCTTGATTTTATAGAGCCAGGGGGAG
CTGGGCCTGGTCTCACCTGGAGGCACCTGGTGGCCATGCTCCTCTTCCCAGACGCCTG
GCTGCTGATCGCCTTCCCCACCCACCAACCCTCAGGGCAAAGCCAGGTCCCTCTCATTTA
GCCTGTCTCTGTCTCATCATCATGGCCAGCTGGAGGCAGGGGCTTCCTGGTGTCTGGAGGTTGG
ATCTTGATGTAAGGATGGGCATGGTGTCTCTCTGCTGCTCCCTCAGACTGGGGCAATGTT
AATTTAGTGGAAAAGGCACCCCCGTCAAGAGTGAATTCCCTCACTCGTCTCCCCAACAG
CTGGACCCTGACCAGCTCCCCCTCCCTCCCCTTGCCCTGTGCCAGGTGAGGTGAGCAGATC
TCAACAGGCCTCAGGGCTCCTTGTGGGCCTGGGCTCCTGGACCCCTTTTACAGGCAGC
CAGTGCCCTGAGCCAGGGTCTCCAGAAAGCCCCACCCAGGCCAGGCATGTGGCAGGGGTT
AGAGCAGGACTGATGTCTCCTAAGCACCTGTAATGTGCGAGGGACCCAGCTAATAACTGA
TCTCGTTTTTTTCTTCACTGCAACATGATGAGGTAGTACCTTTTATATCCCATTTATAGAT
GGGGGAAAGCAAAGCACAGAGAGTCTGGATAACTTCCACAGGGTCCCACAGCCACGTGTT
TAGACCTAGATGTATAACTAGGAGCTTTGACTCAGGAGCCTGTGACATACCCCTCCCCC
ACCGTTGTCTCATGCCAGTAACAGGCTCAAAACAATGACAAAGCAGATTTCAGAAATGAGGC
CATGGACTCTGTCTGAAGGCCTGAGGTTACTGGAAATTAGGGGATTAAACCCACTAGCTC
TTGTTGAGCCGTGGGCAATTGTCTGAAAAGTGAAGACAGAACCAAGGGCTATTTTGTGTT
GCTTCATGTGTCCAGAAAGATGACTGAGGGTGAGTTGGCTTACCTGGCCCATCAGGGTAG
GCTGGAGTTAGGGACTGACCAGCAGCTTTAGAATCCAGCCCCCTGACCACTCAGAGACA
TGCAGAGATTGGGTTTTTGGACTTCTGGGGTAAGTGGTCTAAGTCCAGTCCAGTCTATC
TGGGCTTCCTGGAGCAGAAGCAGCAACTTGTCTTAGCACAGATGGCCAGCCCCCTTAGACA
GAGGCCCTCAAGTCTTTCTCTTTCCCTGGTCCCTTGATCCCCTGAGGCTGAGTGCATT
TGGAGGGAGTGAGTGGCCCTTTTCGGATCCAGGGAGGCTGGTCTATGGCCTCATGTTAAA
TAGGCGGGGCTTGCCCTTCTGGTGTGGACAAGCTTCTGAGACGTGATGAGGAGATTCTGC
CTTTGCCAGGTGACTGTCTGGGAGCGGGTCTGCTCCCAAGGGGCTGAGCAGTCTTTGG
CCTGCTAAGGTCTTGGAACCTTGCCCTGCCTTTTCATCCATGGCCAGCAGCACCTGCCCTAC
CTGCCCCACTTGTCTTAGCCTGGACCTCTGACAGCAGCATCTCTACCTTCTCCCCAGCT
CCCAGGACCACAGGCTCAGGCAGGGGCTCCATGGGCCCCAGGGGAACTGAGGGACTTG
GCCTCTCTCTAGGGTACATGGTGTCTGGGAGAGGCAGCCAGGAAGTCTCATCTGGGGAGC
AGGCAGCCAGCATCTGGGCCTTGGCCTGGAGCACAAAGACCCTGGCTTTTCATTTTCTCTC
AGGTGAAAGGAAATTAAGGCAACAAAAGAAGCCCGGCTCCTGGTCACCTAGGAAGCCTCA
GATTCCTTCCCATGGAGGGAGGGAGTGGTTTGAGGTGGCCAAGTTCCTCTAACTTGGCT
CACACTCGACATGAAAATTGAGAATTTTATACTTTCCCTACCCTCTAGAGAAATAAGATC

FIGURE 1 (CONT'D)

TTTTTTGTCTAGTTTGTGTTGTATGAACTAAAGCCTTTATTTGTTAATAGTTCCTGCTAAA
ACAATGAATAAAAACTCAAGGAGC

Gene 160. >ENST00000316132 cDNA sequence

AAAGCGGAAGGGGCGCGCGGATAGAGCTCCAGTGTGCCAAGCGTGGGCGGTATACAGTA
AACAAAGACAACCCCTATTCTTATCACCTTGCCTACTGAGTGCAAGTCCAGGAAGTGTGT
AAGCAGACCCTCAGAGGAGCTCTGGGAAACACTGAAAAATAGCCTCTCCCCCATTGGCT
GCCAGGATGGAACTAACTACCTGAAGAGGTGCTTTGGAAATTGCCTGGCCAGGCACTG
GCAGAGGTGGCGAAGGTTTCGGCCCACTGACCCAATAGAATACCTGGCTCACTGGCTTTAT
CATTACAGGAAAACAGCAAAAGCAAAAGAAGAGAATAGGGAAAAGAAGATCCACCTGCAG
GAGGAATATGACAGTAGCCTCAAGGAAATGGAAATGACAGAAATGCTGAAACAGGAAGAG
TATCAGATTCAACAGAACTGTGAAAAGTGTCAAGGAAGTCACTTCTGAAACTGTTTCC
ACGAAGAAGACCATATTATGACAGGAGGACACAAACCCCTTGAGAAGGAGGCCTTGAAG
CAGGAATTCCTGCCAGGTACTTCCAGTCTGATTCCAGGAATGCCTCAACAGGTTCCCTCCT
TCAGAGTCTGCTGGCCAGATTGACCAGAACTTCAAAATGCCACAAGAAATAAATTACAAG
GAGGCTTTTTCAGCATGAAGTTGCTCATGAAATGCCTCCTGGCTCCAAATCTCCTTTTTAG
GTTACAGAAGGTAGATGCTTCTGATTACTTCTCTCAAAGCTAGAAGCCAAGAAAATGGC
CAGCTAGAACCAAGATTTAAGGGGCTGTAAAAGGCAAGTTCAGGGACTCTCCAGCCTACT
CCTTTTCTGAAAAACCCCTTAATCATGTGAACATTTGAACTAGTTATAGGATAAAAATAAAC
TCAGAATAAGGATTTAAAATAAGTAACCAAGTGGCTGTGACTTTTTCTCTTGTGTTTTATC
AACGTTTTTGGAGACTACACAATGAAAACACATCTGTTGGGGTGATCAGACCCAACACCCG
GCCATGGGGGCTACAAAGTCCAGCCGAGTCAAAGGAAAGAGAAAAGACAAGTCAAGAGAG
AAAGTGGGACCAGGGGGCCAATGCTAGTATGGAGGCTGTGAAGTCCCAAGCTCTGGAAG
CCCACACTATTTGTTGGTGATCAAAACAAAGAAACAGGTGATGAGGATGTGGGAGTTGAAA
GAAAGTGGTGTATCAAGCGAATGAACTACAGCTGTGAGGGTTTAGCATTCTTTGAAAC
ATATGGCTACTTGAGATAATGGGAGTGCTAGAAGCAAGGAGCCAGCAAGTCTGGACACAT
TACAAAGGCCACAAGGGGTTTTATCCTGGACCCCGGACATGTTCCAAGCCCTGCCTCAAC
TTTTCTCCCAACACTAAGCTTTCTCCCAACACACATCCATCTCGTGTGTTTATGTCTTA
ACTTTTGCTTCACTTACAGTCAGGCCTCTCCGAGTATTTTTTACACATATCCTGGAGTC
TACCTATGTCACTGATAGCAGATATTTTTCTTCAACATATATTATCAATGTTTTAATACT
TTTCTTCAATTTTAGTAAGTGGTAAAATACATGTAAGATGTACCATCTTAACCATTTTTA
AGTGTACAGATCAGTTGTATTAAGTAGATTATATTCTTGTGCAACCATCATCACCATCC
GGCTGCAAAACTCTTTTCTGCAAAACTGAAACTCTACACCCATTAAAAAATAACTCG
CCATTTCTCTCTCTCCCCAGCCCTGGCAACCACCATTTCTTTCTGTCTCTGTGATTTAGA
TTACTCTGTAAGTATGTTGTATAAATAGACTCATACAATGTT

Gene 161. >ENST00000241895 cDNA sequence

AAGCGCGGGGCCCCGCCCCCTGGGACCTCCGGGCGGGCGGTTTGGCCCCCTTAGCGCCCCG
GCGTCGGGGCGGTAAAAGGCCGGCAGAAAGGAGGCACTTGAGAAATGTCTTTCCTCCAGG
ACCAAGTTTCTTACCATTGGGGATGTGGTCCATTGGTGCAAGGAGCCCTGGGGGCTGCTG
CCTTGGCATTGCTGCTTGCCAAACAGACGTGTTTCTGTCCAAGCCCCAGAAAGCGGCC
TGGAGTACCTGGAGGATATAGACCTGAAAAACTGGAGAAGGAACCAAGGACTTTCAAAG
CAAAGGAGCTATGGGAAAAAATGGAGCTGTGATTATGGCCGTGCGGAGGCCAGGCTGTT
TCCTCTGTGAGAGGAAGCTGCGGATCTGTCTCCTGAAAAGCATGTTGGACCAGCTGG
GCGTCCCCCTCTATGCAGTGGTAAAGGAGCACATCAGGACTGAAGTGAAGGATTTCCAGC
CTTATTTCAAAGGAGAAATCTTCTGGATGAAAAGAAAAGTTCTATGGTCCACAAAGGC
GGAAGATGATGTTTATGGGATTTATCCGTCTGGGAGTGTGGTACAACCTTCTCCGAGCCT
GGAACGGAGGCTTCTCTGGAACCTGGAAGGAGAAGGCTTCATCCTTGGGGGAGTTTTCG
TGGTGGGATCAGGAAAGCAGGGCATTCTTCTTGGACCCGAGAAAAGAATTTGGAGACA
AAGTAAACCTACTTTCTGTTCTGGAAGCTGCTAAGATGATCAAAACACAGACTTTGGCCT
CAGAGAAAAAATGATTGTGTGAAACTGCCAGCTCAGGGATAACCAGGGACATTCACTG
TGTTTCATGGGATGTATTGTTTCACTCGTGTCCCTAAGGAGTGAGAAACCATTTTATACT
CTACTCTCAGTATGGATTATTAATGTATTTAATATTCTGTTTAGGCCCACTAAGGCAAA
ATAGCCCCAAAACAAGACTGACAAAAATCTGAAAACTAATGAGGATTATTAAGCTAAAA
CCTGGGAAATAGGAGGCTTAAATTTGACTGCCAGGCTGGGTGCAGTGGCTCACACCTGTA
ATCCAGCACTTTGGGAGGCCAAGGTGAGCAAGTCACTTGAGGTGGGAGTTCGAGACCA

FIGURE 1 (CONT'D)

GCCTGAGCAACATGGCGAAACCCCGTCTCTACTAAAAATACAAAAATCACCCGGGTGTGG
TGGCAGGCACCTGTAGTCCAGCTACCCGGGAGGCTGAGGCAGGAGAATCACTTGAACCT
GGGAGGTGGAGGTTGCGGTGAGCTGAGATCACCACTGTATTCCAGCCTGGGTGACTGA
GACTCTAACTAAAAAAAAAAAAAAAAAAAAATTGATTGCTGTGCCTCATTACAAATGCAT
ATGATGTTTGGAGTGCTGTTGTTTGAAATTATTTTCTTTTCGGGTCTTCAAAAATTCAAG
AAAAGTTGATGATTGACTTGAAGATTACAAAATTTAAGGTTTTTTGGCATGTGTGTTTTTC
TATTAATAATTGGTTATATGATGTCAAAGTAATACTTTTATAATAGAATTGACATGCTCT
GGGATAGTTTTGACAAAGGTAAATTATAAAGTGAAATCTCTTGTTCATTATCTTCATTTC
TAACCTCAGAGATCTGTTTCTCTAGAAAAATGTCCATCTCTGGCTTTAATAAAAATTATG
CATCAG

Gene 162. >ENST00000334512 cDNA sequence

GGTGGTTTTGCAGATCACTGAGGCTGGACAACGTTTCATGGCTCTCGGGTAGAACCTAGTGA
AACGGCCAGAATGAATTCTATGGACAGGCACATCCAGCAGACCAATGACCGACTGCAGTG
CATCAAGCAGCACTTACAGAATCCTGCCAATTTCACAATGCCGCCACGGAGCTGCTGGA
CTGGTGCGGAGACCCACGGGCCTTTCAGCGGCCCTTCGAGCAGAGCCTGATGGGCTGTTT
GACGGTGGTCACTCGGGTGGCAGCCAGCAAGGCTTTGACCTGGACCTCGGCTACAGACT
GCTGGCTGTGTGTGCTGCAAACCGAGACAAGTTTACCCCGAAGTCTGCCGCCTTGTTGTC
CTCCTGGTGCGAAGAGCTCGGCCGCCTGCTGCTGCTCCGACATCAGAAGAGCCGCCAGAG
CGATCCCCCTGGGAAACTCCCATGCAGCCCCCTCTCAGCTCCATGAGCTCCATGAAACC
CACTCTGTGCGACAGTGATGGGTGCTTCCCTATGACTCTGTCCCTTGGCAGCAGAACAC
CAACCAGCCTCCCGCTCCCTTTCCGTGGTCAACACGGTTTGGGAGTAACCAACACATC
CCAGAGCCAGGTCTTGGGAACCTATGGCCAATGCCAACAACCCCATGAATCCAGGCGG
CAACCCCATGGCGTCCGGGCATGACCACCAGCAACCCAGGCCTCAACTCCCACAGTTTGC
GGGGCAGCAGCAGCAGTTCTCAGCCAAGGCTGGCCCCGCTCAGCCCTACATCCAGCAGAG
CATGTATGGCCGGCCCAACTACCCCGGCAGCGGGGGCTTTGGGGCCAGTTACCCTGGGGG
TCCTAACGCCCCCGCAGGCATGGGCATCCCTCCGCACACCAGGCCGCCTGCTGACTTCAC
TCAGCCCGCGGCAGCCGCTGCAGCAGCGGCAGTGGCAGCAGCAGCAGCCACAGCTACAGC
CACAGCCACGGCCACTGTGGCAGCCCTGCAGGAGACACAGAACAAGGATATAAAACAGTA
TGGACCGATGGGTCCCACCCAGGCGTATAACAGCCAATTTCATGAACAGCCCGGGCCGCG
GGGGCCTGCCTCCATGGGGGGCAGCATGAACCCCGCGAGCATGGCGGCTGGCATGACGCC
CTCGGGGATGAGCGGCCCTCCCATGGGCATGAACCAGCCCCGGCCCGCCCGGCATCAGCCC
CTTTGGCACAACCGGGCAGCGGATGCCCCAGCAGACCTACCCGGGCCCCCGGCCAGTTC
CCTTCCTATTAGAAACATAAAGAGGCCATACCTTGGAGAGCCCAACTATGGAAACAGCA
ATATGGACCAACAGCCAGTTCCCCACCCAGCCAGGCCAGTACCCAGCCCCCAACCCCCC
GAGGCCACTCACCTCCCCCAACTACCCAGGACAGAGGATGCCAGCCAGCCGAGCTCCGG
GCAGTACCCGCCCCCCCCACGGTCAAATGGGGCAGTATTACAAGCCAGAACAGTTTAATGG
ACAAAATAACACGTTTCTCGGGAAGCAGCTACAGTAACTACAGCCAAGGGAATGTCAACAG
GCCTCCAGGCGGGTTCCTGTGGCAAATTACCCCCACTCACCTGTTCCAGGGAACCCCCAC
ACCCCCCATGACCCCTGGGAGCAGCATCCCTCCATACCTGTCCCCCAGCCAAGACGTCAA
ACCAACCTTCCCGCCTGACATCAAGCCAAATATGAGCGCTCTGCCACCAACCCACAGCCAA
CCACAATGACGAGCTGCGGCTCACATTCCCTGTGCGGGATGGCGTGGTGTGAGGCCCTT
CCGCCTGGAGCACAACCTGGCGGTGAGCAACCATGTGTTCCACCTGCGGCCACGGTCCA
CCAGACGCTGATGTGGAGGTCTGACCTGGAGCTGCAGTTCAAGTGCTACCACCACGAGGA
CCGGCAGATGAACACCAACTGGCCCGCCTCGGTGCAGGTGAGCGTGAACGCCACGCCCTT
CACCATTGAGCGCGCGCAGCAACAAGACCTCCACAAGCCCCCTGCACCTGAAGCACGTGTG
CCAGCCGGGCCGCAACACCATCCAGATCACCGTCACGGCCTGCTGCTGCCACCTCTT
CGTGCTGCAGCTGGTACACCGGCCCTCCGTCCGCTCTGTGCTGCAAGGACTCCTCAAGAA
GCGCCTCCTGCCCAGAGCACTGTATCACGAAAATCAAGCGGAATTTTTCAGCAGCGTGGC
TGCCTCCTCGGGCAACACGACCCTCAACGGGGAGGATGGGGTGGAGCAGACGGCCATCAA
GGTGTCTCTGAAGTGCCCCATCACATTCCGGCGCATCCAGCTGCCTGCTCGAGGACACGA
TTGCAAGCATGTGCAGTGCTTTGATCTGGAGTCATACCTGCAGCTGAATTGCGAGAGAGG
GACCTGGAGGTGCTCTGTGTGCAATAAAACCGCTCTGCTGGAGGGCCTGGAGGTGGATCA
GTACATGTGGGAATCCTGAATGCCATCCAACTCCGAGTTTGAAGAGGTACCCATCGA
TCCCACGTGCAGCTGGCGGCCGGTGCCCATCAAGTCGGACTTACACATCAAGGACGACCC

FIGURE 1 (CONT'D)

TGATGGCATCCCCTCCAAGCGGTTCAAGACCATGAGTCCCAGCCAGATGATCATGCCCAA
TGT CATGGAGATGATCGCAGCCCTGGGCCCCGGCCCCGTCCCCCTATCCCCTCCCGCCTCC
CCCAGGGGGCACCAACTCCAACGACTACAGCAGCCAAGGCAACAACTACCAAGGCCATGG
CAACTTTGACTTCCCCACGGGAACCTGGAGGGACATCCATGAATGACTTCATGCACGG
GCCCCCCCAGCTCTCCACCCCCCGGACATGCCCAACAACATGGCCGCCCTCGAGAAACC
CCTCAGCCACCCCATGCAGGAACTATGCCACACGCTGGCAGCTCTGACCAGCCCCACCC
CTCCATACAACAAGGTTTGCACGTACACACCCAGCAGCCAGTCAGGGCCTCCATTACA
TCACAGTGGGGCTCCTCCTCCTCCTCCTTCCCAGCCTCCCCGGCAGCCGCCACAGGCCGC
TCCCAGCAGCCATCCACACAGCGACCTGACCTTTAA CCCCTCCTCAGCCTTAGAGGGTCA
GGCCGGAGCGCAGGGAGCGTCCGACATGCCGGAGCCTTCGCTGGATCTCCTTCCCGAACT
CAAAATCCTGACGAGCTCCTGTCTTATCTGGACCCCCCGACCTGCCGAGCAATAGTAA
CGATGACCTCCTGTCTCTATTTGAGAACTGAGGGCCACCCGGTCGGGGCCATCCCTC
CACACTCTGCATCCTACCCACCTACCCAAACACTTTTCCACCTGGGAGCCTGTGCCCT
CAGACCGCCCCGCACCAGAGCCA CGGGCTGTGGGGCGGGGAGCCCTCCCCGCTGCAGCC
CTCTCAGAACAGAGGGGTAGGGAGGGTGCA CAGTGCACCAGGAAGGCTGTGTGGGTCTG
GAGCCACGTCCACCTCCACACCTTGGCTTGGGCCCATGCCAGCGCAGGCCTGAAGA
CCACCTCCCAGAGGAAC CAGCCCGGTAAGAGGGCACACGCTGATGCGGCTTCCCGGTC
CCTCCGCGTGTGCCGATTCCAGATGACCTTCCAGTGTCCCAAGGTTCTTCCATCTTCTA
GACTGTAACCTGCTCCTGCTTCCTGGTCCAGAGCCTCCCTCCAGTGA CTGTGGAGCC
TGAGAAGGCCCCCGGGCCCCAGCATGGGCCCCGAGCCTTGGAGGAGCACTGGCAGTTGGT
GGCAGTGAGACCAGCCACCCACCCACCCACCA CAGAAAAGCAGAACTCTGGGAAA
GACAACGTCTCTCGGGGGCCAGGGGT CATCGGTTTGACCCCTGACCTATAAGCCAAGATA
CCCCATAAACACACTCAGAAAGCAGAGAAAAAGGACAAGAGTCTGTGTTTGAGAGGGGGT
CTGCCATTCTGCTTGGGGA CTGGTGGGGAAGAGGGCCAGGACATCTTCTGAGCCAGGAC
GTCCCTGAGGCTCCACCTCCAAGCTCAGACAGGGCCAGGCTTGGGGAACAGAGAGAGCA
GGTGTACACCCAACCAAAGTGATTGTGCCCTTGGTTGGGGGGCGCGGCATATAACCTGT
CAGAAGCAAACAGGAGCGGCAACTTCTAACTTTGCTCCAAGCCA CTCTTTTTTAAACAG
CAACAATTTAAAGCTATGAAGTCACTGGAGAAAAGGAACGTTGCTCTTGGACAGCAAGC
AAACCATTTCTCTCCGTCTGTTCTGTTTTTCTCCTAGTCCCTCTCCTGCCACCTCTCCAA
GACTTCCGTGGGACACCCACTTCCCTCTGTCTAGTTCTCTTTGTCCAATCAGATGGCAA
GGGCAGTGCGTGGAAGGCCGGGGAGGTGCAGAAACCAGAGCCAGGGCAATGGTGTCTG
TCCAGCCCCCTCCCTCTGTCCCTGTGCTCCAAGCTGCCCCCGGCTGCAGCCAGGCCATGG
ACATGTGCACCAGTATGTACCTGCAGGCATGGGGGGGAGGGGGGCGTGTCTTGGGCCTG
CCCCAGACACTGCCCTTGGCTGCCAGCCTACCTGCTGCACTCCTCCACCATCACAATC
TCACCCAAACTCCTGCTCACTCAAGCAAAAGCAGCCTCTGGCCTTCCCTCCACCGCTTTG
CTCCATCTGGCTTACCACTCTCCAGGGCCTCCTGGGGAGCCTGTCCTGTGTTCACTTTGT
TTCAGGCTGGTCTGTGCCCCGTGAGCCACATGGCCTAGGGTGATGCCAGGTTGTCCCGTC
ACTGGGGTCCCATCTGTAAATTCTTTGCGCCCTTCCCGGCTGCTGCTGGGGCCCTTTCC
TGCTCTCCCGTCCGCTGTGGGTGGTCCCCAGCTCTCCTCTGTGGGTTTTACCGGAAAGGT
GGCCCCAGCTGTTGACTTCCAGTCACTGTCCCAGACGGCACAAAGGTTTTCTGTAGGAAAG
CTGCCATTGCCCCGGCCCCCTTTCTTCTTTGTCCCGTTGTGAGGTTTTTTCAAATAGC
GTGTTGTTTCAGTATGCAAATCAATTATTTTAAAGAAATCGCTTTTGTAAATATCTTTGTGAA
TATTTTAGTATCGTCTTTGATAATATTCAACATTTTTCATGACCTGGTTATAGCCTTTGCT
GGTGTTTTTTAAATACTGGACTCAATGACAAAGACCGAGTCTTCTTTTTTTTTTAAACAA
AAACAAAAAAGCAACCAGGGCTATTTGTACAGTTGAAGGGGTGAACAGAATGGGCGGCT
GTGCTGGGAGTTGGAAGACCGGGCAGCCCGCTATTTAGAGCCATCCCTCAGTCAGCTGGC
AGGGACAAGCCAACGCCAGGTAGCATGTGGCCACCTTGCCAGTGTCTGTGGCCTGGCA
AGTGGCCACGCCCTGTGTGAGACCATCTGGGAATTAAGCTCCAGACAGACTTACAGATGC
CTTCCTTAGGAGTTCTTGCTTCTTGCGTTGATACTTTGCCCCAGAAAGGCCTGGGATTCA
TTCTGGTTCTTATCAGGGTGTGTCCACACTCTGCTCACAGGTGGATCCACGGCTTTCCAG
TGCGGAGAGTCGAGATGCTCCCTGCAGCCCAGGCCCCGGGCACCTCCTGCAACCATCTCT
GGGCTCAGCACCTGAGGCGGGTTTTCTGGGTCCCCTCTCCAGCAAGCCTCCACCAGCAAG
CTCGGCCAGAGCTTCCCTTCCGGCTGGCTCTGAACCGTGCCTGGTGCTTACAGCCTGCA
GTCTGGAGACAAGCTCTTCCGGAGTGCTCTGGGAGCCAGGCCAGGGTGTGAGGGAGGTGC

FIGURE 1 (CONT'D)

AGAGGCATCCGGGGCGGGAGCAAGCCCCAGGTTGTGACAGGTGCAGGTAGACAACGCCCCA
TAAACAGAGATGGTCCTGAACTCTGGAGAGATCCTTCCCTGATCCTTTTCGGACGACTACT
TGGAGCCATAAGTAACCTCAGCAAAAACGAGGCCTCTGCAAGCCACTTTTCCATGCCAAG
CATCCACCCGGCCACAGGCATGTTTCTGCCGCCACTCCGCAAGATGGACAGGGAGCCAG
CAGGCAGGCGGGAAGGGCCAAGTACAGGCAATCACCCCCATCTTCTTGGTTTGAAGCTTT
ATCCATGTATCATGTTCCGTGTAGCCATTTTATTTTAAAGAACTGCTAATACTTTCTC
CCTAATGGAAGCCCTGATCCCCAGAGAGCTACAGGTCTGCTCCCGACGGGCCTCGGGCC
TGACCCGTCCACACAGGGCCGTGTCAACAGCAGCGACTCAAGGGACGTGTGTACATATGT
AAATGAGAAATAGAGACGTGTCAACAGATGCATTCATTTCTCTTGAATGTGTATTGTTT
TTATTTTTCGGAACAACAAACAAAAAAGCTTGGAACTCCATCACGTGGAAAAA
CTAGATCCTGTTGGTTATAGCATTTGTGAGTCTCCACGTCTGTCTCTCTCGCTCATGTA
ATATACTCTGACCCTGAGTGGAAAGGGGTTTTTGTCTGTCTTTTATTTTACCTACATGTA
CTATTTAGCTTCAGTGTACTAGTCTGCCACCTGTGTATTTTATGGGTGCTATGGAAATA
ATGAAAAGAAACGGGGATTTTCAAGAAAATTGTAACCAAATTCTACTTTGTATAATTT
TTGATATCATGATCACAGGTGATTCACACGTACACACATAAACACACCCACCAGTGCAGC
CTGAAGTAACTCCACAGAAACCATCATCGTCTTTGTACATCGTATGTACAATGCAATCA
TTTCATACTTTAACTGGTCAAAAACTAATTGTGATTTCTAGTCTTGCAAAGCTGTATG
TAGTTAGATGATGTGACAACCTCTAATATTTATCTAATAAATATGTATTTCAGATGAAACC
TGTATATTAGGTGTTTCATGTGGTTATTTTGTATTTAAAGATCAAATTATTTGACTATTGC
TAGACATTTCTATACTCTGTTGTAACACTGAGGTATCTCATTTGCCCATGTTAATTTTTT
TCTAATAAATTGAC

Gene 163. >ENST00000277788 cDNA sequence

GCGGCCGCCGCCGCCGCCGCCGCCCAAGCCCCGAGGGCGCCAGGGCGGGATCGCGACCGGT
GCAACTTCTAGCCTTGTTGTCTCCTGGTGCAGAGCTCGGCCGCCTGTCTGCTGCTCCG
ACATCAGAAGAGCCGCCAGAGCGATCCCCCTGGGAACTCCCCATGCAGCCCCCTCTCAG
CTCCATGAGCTCCATGAAACCCACTCTGTGCGACAGTGATGGGTCTGTTCCCTATGACTC
TGTCCCTTGGCAGCAGAACACCAACCAGCCTCCCGGCTCCCTTTCCGTGGTCACCACGGT
TTGGGGAGTAACCAACACATCCAGAGCCAGGTCTTGGGAACCTATGGCCAATGCCAA
CAACCCCATGAATCAGGCGGCAACCCCATGGCGTCGGGCATGACCACAGCAACCCAGG
CCTCAACTCCCCACAGTTTTCGCGGGCAGCAGCAGCAGTTCTCAGCCAAGGCTGGCCCCGC
TCAGCCCTACATCCAGCAGAGCATGTATGGCCGGCCCACTACCCCGGCAGCGGGGGCTT
TGGGGCCAGTTACCTTGGGGGTCTAACGCCCCCGCAGGCATGGGCATCCCTCCGCACAC
CAGGCCGCCTGCTGACTTCACTCAGCCCGCGGCAGCCGCTGCAGCAGCGGCAGTGGCAGC
AGCAGCAGCCACAGCTACAGCCACAGCCACGGCCACTGTGGCAGCCCTGCAGGAGACACA
GAACAAGGATATAAACAGTATGGACCGATGGGTCCACCCAGGCGTATAACAGCCAATT
CATGAACCAGCCCGGGCCGCGGGGGCCTGCCTCCATGGGGGGCAGCATGAACCCCGCGAG
CATGGCGGCTGGCATGACGCCCTCGGGGATGAGCGGCCCTCCCATGGGCATGAACCAGCC
CCGGCCGCCCGGCATCAGCCCTTTGGCACACAGGGCAGCGGATGCCCCAGCAGACCTA
CCCGGGCCCCCGGCCCCAGTCCCTTCCCTATTGAGAACATAAAGAGGCCATACCCTGGAGA
GCCCAACTATGGAAACAGCAATATGGACCAAAACAGCCAGTTCCCCACCCAGCCAGGCCA
GTACCCAGCCCCCAACCCCCGAGGCCACTCACCTCCCCCAACTACCCAGGACAGAGGAT
GCCCAGCCAGCCGAGCTCCGGGCAGTACCCGCCCCCCACGGTCAACATGGGGCAGTATTA
CAAGCCAGAACAGTTTAAATGGACAAAATAACACGTTCTCGGGAAGCAGCTACAGTAACTA
CAGCCAAGGGAATGTCAAAGGCCTCCAGGCCGTTTCTGTGGCAAATTACCCCACTC
ACCTGTTCCAGGGAACCCCAACCCCCCATGACCCCTGGGAGCAGCATCCCTCCATACCT
GTCCCCCAGCCAAGACGTCAAACACCCCTTCCCGCTGACATCAAGCCAAATATGAGCGC
TCTGCCACCAACCCCGAGCCAACCAATGACGAGCTGCGGCTCACATTCCTGTGCGGGA
TGGCGTGGTGTGAGGCCCTTCCGCCTGGAGCACAACTGGCGGTGAGCAACCATGTGTT
CCACCTGCGGCCACGGTCCACAGACGCTGATGTGGAGGTCTGACCTGGAGCTGCAGTT
CAAGTGCTACCACACGAGGACCGGCAGATGAACACCAACTGGCCCCCTCGGTGCAGGT
CAGCGTGAACGCCACGCCCTTACCATTGAGCGCGGCGACAACAAGACCTCCACAAGCC
CCTGCACCTGAAGCACGTGTGCCAGCCGGGCCGCAACACCATCCAGATCACCGTCACGGC
CTGCTGCTGCTCCACCTCTTCGTGCTGCAGCTGGTACACCGGCCCTCCGTCCGCTCTGT
GCTGCAAGGACTCCTCAAGAAGCGCCTCCTGCCCGCAGAGCACTGTATCACGAAAATCAA

FIGURE 1 (CONT'D)

GCGGAATTTTCAGCAGCGTGGCTGCCTCCTCGGGCAACACGACCCTCAACGGGGAGGATGG
GGTGGAGCAGACGGCCATCAAGGTGTCTCTGAAGTGCCCATCACATTCGGGCGCATCCA
GCTGCCTGCTCGAGGACACGATTGCAAGCATGTGCAGTGCTTTGATCTGGAGTCATACCT
GCAGCTGAATTGCGAGAGAGGGACCTGGAGGTGTCTGTGTGCAATAAAACCGCTCTGCT
GGAGGGCCTGGAGGTGGATCAGTACATGTGGGGAATCCTGAATGCCATCAACACTCCGA
GTTTGAAGAGGTCAACATCGATCCACGTGCAGCTGGCGGCCGGTGCCCATCAAGTCGGA
CTTACACATCAAGGACGACCCTGATGGCATCCCTCCAAGCGTTCAAGACCATGAGTCC
CAGCCAGATGATCATGCCAATGTCTATGGAGATGATCGCAGCCCTGGGCCCCGGCCCCGTC
CCCCTATCCCCTCCCGCTCCCCAGGGGGCACCAACTCCAACGACTACAGCAGCCAAGG
CAACAACACCAAGGCCATGGCAACTTTGACTTCCCCACGGGAACCCTGGAGGGACATC
CATGAATGACTTCATGCACGGGCCCCCCCCAGCTCTCCACCCCCCGGACATGCCCAACAA
CATGGCCGCCCCCTCGAGAAACCCCTCAGCCACCCCATGCAGGAAACTATGCCACACGCTGG
CAGCTCTGACCAGCCCCACCCCTCCATACAACAAGGTTTGACGTACCAACCCCGAGCAG
CCAGTCAGGGCCTCCATTACATCAGTGGGGCTCCTCCTCCTCCTTCCAGCCTCC
CCGGCAGCCGCCACAGGCCGCTCCAGCAGCCATCCACACAGCGACCTGACCTTTAACCC
CTCCTCAGCCTTAGAGGGTCAAGGCCGAGCGCAGGGAGCGTCCGACATGCCGGAGCCTTC
GCTGGATCTCCTTCCCGAACTCACAATCCTGACGAGCTCCTGTCTTATCTGGACCCCCC
CGACCTGCCGAGCAATAGTAACGATGACCTCCTGTCTCTATTTGAGAACTAGAGGGCC
ACCCGGTCGGGGCCATCCCTCCACACTCTGCATCCTACCCACCTACCCAACACACTTTT
CCACCTGGGAGCCTGTGCCCTCAGACCGCCCCGCACCAGAGCCACGGGCTGTGGGGCGGG
GAGCCCTCCCCCGCTGCAGCCCTCTCAGAACAGAGGGGTAGGGAGGGTGACCAAGTGCAC
CAGGAAGGCTGTGTGGGTCTGGAGCCACGTCCACCTCCACACCCCTTGGCTTGGGCCCA
TGCCAGCGCAGGCCTGAAGACCACCTCCCGAGAGGAACCAGCCCGGTAAGAGGGCACA
CGCTGATGCGGCTTCCCGGTCCCTCCCGCTGTGCCGATTCCAGATGACCTTCCAGTGTCC
CCAAGGTTCTTCCATCTTCTAGACTGTAAACCTGCCTCCCTGCTTCTGGTCCAGAGCCT
CCCTCCAGTGACTGTGGAGCCTGAGAAGGCCCCCGGGCCCCAGCATGGGCCCCGAGCCTT
GGAGGAGCACTGGCAGTTGGTGGCAGTGAGACCAGCCCCACCAACCAACCCACCAAGA
AAAGCACAAACCTCTGGGAAAGACAACGTCTCTCGGGGGCCAGGGGTCACTCGGTTTGACC
CCTGACCTATAAGCCAAGATACCCCATAAACACACTCAGAAAGCAGAGAAAAAGGACAAG
AGTCTGTGTTTGAGAGGGGGTCTGCCATTCTCTGCTTGGGGACTGGTGGGGAAGAGGGCCA
GGACATCTTCTGAGCCAGGACGTCCCTGAGGCTCCACCTCCAAGCTCAGACAGGGCCCCAG
GCTTGGGGAACAGAGAGAGCAGGTGTACCCCAACCAAGTGATTGTGCCCTTGGTTGGG
GGGCGCGGGCATATAACCTGTGAGAAACAAACAGGAGCGGCAACTTCTAACTTTGCTCCA
AGCCACTCTCTTTTTAAACAGCAACAATTTAAAGCTATGAAGTCACTGGAGAAAAGGAA
CGTTGCTCTTGGACAGCAAGCAACCATTTCTCTCCGTCTGTTCTGTTTTCTCCTAGTC
CCTCTCCTGCCACCTCTCCAAGACTTCCGTGGGACACCCACTTCCCTCTGTCTAGTTCT
CTTTGTCCAATCAGATGGCAAGGGCAGTGCGTGGAAAGGCCGGGAGGTGCAGAAACCAG
AGCCAGGGCAATGGTGTCTGTCCAGCCCTCCCTCTGTCCCTGTGCTCCAAGCTGCCCC
CGGCTGCAGCCAGGCCATGGACATGTGCACCAAGTATGTACCTGCAGGCATGGGGGGGAG
GGGGGCGTGTTTCTGGGCCTGCCCCAGACACTGCCCTTGGCTGCCAGCCTACCCTGCCTG
CACTCCTCCACCATCACAATCTCACCCAAACTCCTGCTCACTCAAGCAAAAGCAGCCTCT
GGCCTTCCCTCCACCGCTTTGCTCCATCTGGCTTACCACTCTCCAGGGCCTCCTGGGGAG
CCTGTCTGTGTTCACTTTGTTTCAAGCTGGTCTGTGCCCCGTGAGCCACATGGCCTAGG
GTGATGCCAGGTTGTCCCGTCACTGGGGTCCCATCTGTAAATTCTTTGCGCCCTTCCCGG
CTGCTGCCTGGGGCCCTTTCTGCTCTCCCGTCCGCTGTGGGTGGTCCCAGCTCTCCTC
TGTGGGTTTTACCGAAAGGTGGCCCCAGCTGTTGACTTCCAGTCACTGTCCCAGACGGC
ACAAGGTTTTCTGTAGGAAAGCTGCCATTGCCCGGGCCCCCTTTCTTCTTTGTCCCGTT
GTCGAGGTTTTTTCAA

Gene 164. >ENST00000260896 cDNA sequence

CTTTTCCTCCTTGGCTGTCTGAAGATAGATCGCCATCATGGAACGACACCGTAACTATCC
GCACTAGAAAGTTCATGACCAACCGACTACTTCAGAGGAAACAAATGGTCATTGATGTCC
TTCACCCCGGGAAGGCGACAGTGCCTAAGACAGAAATTCGGGAAAACTAGCCAAAATGT
ACAAGACCACACCGGATGTATCTTTGTATTTGGATTGAGAACTCATTTTGGTGGTGGCA
AGACAACTGGCTTTGGCATGATTTATGATTCCCTGGATTATGCAAAGAAAAATGAACCA

FIGURE 1 (CONT'D)

AACATAGACTTGCAAGACATGGCCTGTATGAGAAGAAAAAGACCTCAAGAAAGCAACGAA
AGGAACGCAAGAACAGAATGAAGAAAGTCAGGGGGACTGCAAAGGCCAATGTTGGTGCTG
GCAAAAAGCAGAAATGAAGTGCTTAGCAGGTGAGCTGGAGATTGGATCACCAGCCGAAGG
AGTAAAGGTGCTGCAATGATGTTAGCTGTGGCCACTGTGGATTTTTTCGAAGAACATTAA
TAAACTAAAACTTCATGTG

Gene 165. >ENST00000277783 cDNA sequence

GGCGAGTCCAGAAGCAGCCCCAGGAGGTGCTGGGGGCATCGTTTCTCTAATCTGGCCTCC
CGAGTGCCAAGGAGGCGTCCCGGCAGCGGTTCATCATGGTGAAGGAGCAGTTCCGGGAGAC
GGATGTGGCCAAGAAAAATAAGCCACATCTGTTTTGGAATGAAGTCACCTGAGGAGATGCG
CCAGCAGGCGCACATCCAAGTTGTGAGTAAGAACCCTGTACAGCCAGGACAACCAACATGC
CCCCTTGCTATATGGGGTGCTCGACCATAGGATGGGTACGAGTGAGAAGGATCGTCCATG
TGAAACCTGTGGGAAAAAATTGGCTGACTGTCTAGGCCACTATGGGTATATCGACCTGGA
GTTGCCGTGTTTTTCATGTAGGGTACTTCAGAGCAGTCATAGGCATCTTACAGATGATCTG
CAAAACCTGCTGCCACATCATGCTGTCCCAAGAGGAGAAGAAGCAGTTTCTGGACTATCT
AAAGAGGCCCCGCTGACCTACCTTCAGAAGCGAGGACTGAAAAAGAAAATCTCTGACAA
GTGCCGGAAGAAAAACATCTGCCATCACTGTGGCGCTTTTAATGGTACCGTAAAGAAGTG
TGGACTGCTGAAATAATTTCATGAGAAATACAAGACCAACAAAAAAGTGGTGGATCCCAT
TGTATCAAATTTCTTCAGTCTTTTGAAACAGCCATTGAACATAATAAAGAAGTGGAGCC
TCTGCTGGGAAGGGCACAGGAAAACTTGAATCCCTTAGTAGTTCTGAATTTATTTAAACG
AATCCCAGCTGAAGATGTTCTCTACTTCTGATGAACCCAGAAGCCGAAAGCCGTCTGA
TTTGATTCTCACACGACTTTTGGTGCCTCCTTTGTGTATCAGACCCTCCGTTGTGAGTGA
TTTGAAAGTCTGGCACCAATGAAGATGATCTGACAATGAAACTGACAGAAATCATTTCCT
AAACGATGTTATTAAAAAGCATCGGATCTCAGGAGCCAAGACCCAGATGATCATGGAGGA
CTGGGATTTCTGTCAGCTGCAGTGTGCCCTCTACATTAACAGTGAGCTCTCGGGCATTCC
CCTCAACATGGCACCCAAGAAGTGGACCAGAGGCTTCGTCCAACGCCTGAAGGGAAAAACA
GGGTCTGATTTAGAGGAAATCTCTCAGGAAAGAGAGTGGATTTTTCTGGCAGAACAGTCAT
CTCGCCCCGACCCCAACCTCCGGATTGATGAGGTAGCTGTGCCAGTTTCATGTGGCCAAAAT
TCTAACTTTTTCTGAGAAGGTAAACAAAGCAAACATCAATTTCTTGAGGAAACTGGTTCA
AAACGGCCCTGAGGTTTCAACCCAGGAGCAAACCTTCATTTCAGCAGAGACATACGCAGATGAA
AAGGTTTTTGAAATACGGAAATCGAGAAAAGATGGCTCAAGAGCTCAAGTATGGTGACAT
CGTAGAGAGACACCTCATCGATGGAGATGTGGTGCTGTTCAATCGGCAGCCCTCGCTGCA
CAAATTGAGCATTATGGCTCATCTGGCCAGGGTCAAGCCCCACCGGACCTTCAGATTTAA
TGAGTGTGTCTGTACACCCTATAATGCTGACTTTGATGGTGATGAAATGAACCTTCATCT
TCCTCAAACAGAAGAAGCTAAAGCAGAGGCCCTTGTTCTGATGGGGACTAAAGCAAATCT
TGTAACCCCGAGGAATGGGGAACCGCTGATTGCTGCTATTTCAGGATTTTCTAACAGGTGC
CTATCTCCTCACTCTCAAGGACACTTTCTTTGATCGAGCCAAGGCTTGCCAAATCATTGC
TTCAATACTGGTTGGCAAGGATGAGAAAATTAAAGTTTCGCCTCCACCGCCTACAATCCT
AAAGCCTGTCAACCTGTGGACGGGAAAGCAGATCTTCAGTGTTCATCCTCAGGCCTAGCGA
TGACAATCCAGTGAGGGCCAACCTGCGAACCAGGGCAAGCAGTACTGTGGCAAAGGGGA
AGATCTCTGTGCCAATGATTCCTATGTTACAATCCAGAACAGTGAGTTGATGAGTGGCAG
CATGGACAAAGGAACCTAGGGTCAGGATCCAAGAACAAATATTTTTTACATTTTGCTGCG
AGACTGGGGACAGAATGAAGCTGCAGATGCCATGTACGGCTCGCCAGGCTGGCTCCTGT
CTACCTGTCTAACCGTGGTTTTCTCAATTGGGATCGGTGATGTACACCTGGCCAAGGACT
GCTGAAGGCCAAGTATGAGTTGCTGAATGCCGGCTACAAGAAATGTGATGAGTACATCGA
AGCCCTGAACACGGGCAAGCTGCAGCAGCAGCCTGGCTGCACTGCTGAGGAGACCTGGA
GGCACTGATCCTGAAGGAGCTGTCTGTGATCCGTGACCACGCTGGCAGTGCCTGCCTCCG
GGAGCTGGACAAGAGCAACAGCCCCCTCACCATGGCTCTGTGCGGCTCCAAAGGTTCTTT
CATTAAACATATCACAGATGATTGCCTGTGTGGGACAGCAGGCATCAGTGGCTCTCGAGT
GCCAGACGGCTTTGAAAACAGGTCCTTGCCCTCATTTTGAAAAACACTCAAAGCTCCAGC
TGCCAAAGGCTTTGTGGCTAATAGCTTTTATTCCGGTTTGACACCAACTGAGTTTTTCTT
CCACACAATGGCCGGCCGGGAAGGTCTAGTCGACACGGCTGTAAAGACAGCTGAAACGGG
ATACATGCAGCGAAGGCTTGTCAAATCTCTTGAAGATCTTTGCTCCAGTATGATCTGAC
AGTCCGAAGCTCTACTGGCGATATTATCCAGTTCATTTATGGAGGAGATGGCTTAGATCC
TGCAGCTATGGAGGGAAAAGATGAACCTTTGGAGTTTAAAAGGGTTCTGGACAACATCAA

FIGURE 1 (CONT'D)

AGCAGTCTTCCCGTGTCCAGTGAGCCTGCTCTCAGCAAAACGAGCTGATCCTGACCAC
 AGAGTCCATCATGAAGAAGAGTGAGTTCCTCTGCTGCCAGGACAGCTTCCTGCAGGAAAT
 AAAAAAATTCATTAAGGGGTCTCTGAGAAGATCAAGAAAACAGAGATAAATATGGCAT
 CAATGATAACGGCAACAAGAGCCCCGTGTGCTGTACCAGCTGGACCGCATCACCCCCAC
 CCAAGTAGAAAAGTTTCTGGAGACCTGTAGGGACAAGTACATGAGGGCACAGATGGAGCC
 AGGTTCTGCAGTGGGTGCTCTGTGTGCCAGAGCATTGGTGAGCCAGGCACCCAGATGAC
 CCTGAAGACTTTTCCACTTTGCAGGTGTGGCCTCCATGAACATCACCTGGGCGTGCCCCG
 GATTAAAGAGATCATCAACGCTTCCAAGGCCATCAGCACTCCAATTATCACAGCACAGCT
 AGACAAGGATGACGACGCGGATTATGCTCGCCTCGTGAAAGGGAGAATTGAGAAAACCTT
 CTTGGGAGAGATTTCCGAGTATATTGAAGAAGTGTTCCTTCTGATGACTGCTTTATTCT
 CGTCAAGCTCTCCCTGGAACGGATTAGGCTTCTGAGACTGGAAGTGAAAGCTGAGACAGT
 GAGATATTCCATCTGCACATCCAAGCTCCGTGTGAAGCCCCGGTGATGTGGCTGTTTATGG
 TGAGGCTGTGGTGTGTGTCACCCCAGAGAGAACAGCAAGAGCTCCATGTACTACGTGCT
 GCAGTTCCTGAAAGAGGATCTCCCCAAGGTGGTGGTGCAGGGCATTCCAGAGGTGTCCAG
 AGCTGTGATCCACATTGACGAGCAGAGTGGAAAGGAGAAGTACAAGCTTCTGGTGGAAGG
 TGATAACCTGCGGGCAGTCATGGCCACACACGGTGTGAAGGGCACCCGAACCACTCCAA
 TAACACCTATGAGGTGGAGAAAACCTCTGGGCATCGAGGCCGCCCGGACAACGATCATCAA
 TGAAATCCAGTACACCATGGTGAACCACGGCATGAGCATCGACAGGAGGCACGTGATGCT
 GCTCTCCGACCTCATGACCTACAAGGGTGAAGTCTGGGCATCACTAGGTTTGGCCTGGC
 CAAGATGAAGGAGAGTGTGCTGATGCTGGCCTCCTTTGAGAAGACGGCTGACCATCTCTT
 TGACGCTGCCTACTTCGGGCAGAAGGACTCTGTGTGTGGGGTGTCTGAGTGCATCATCAT
 GGGAAATCCCAATGAACATTGGAACCGGGCTCTTCAAGCTGCTTCACAAGGCTGACAGGGA
 CCCGAACCTCCCAAGAGGCCCTGATCTTCGACACAAATGAATTCCACATCCCCCTTGT
 CACATAGTCCAAAGAAAGAGGGGACCATGCCTGACCTTGACTCCTTGTCTGTCTCCAGC
 TGATGTATAAAGAGTTTTGTGCTCCCTGGGACGGGGTCTGAGGTCCCCACCTATGCCA
 GCAATCAGAGAAGCCCTCTTGGCATCCCCAGGAGCAGCTTCTCCTCTGATAGGGTGCAGC
 TCACACCAGTGACCTGACTGTGCCACGCTGCTCGGGAGAGCTGAGGGTTTTATTGTTTG
 CTTGCTTGAAACCTAATCTATAGACGGCCCCACAGCTCGTGCACACACTGCTTCCCTGGA
 CTTAAAGCCCAGCCAGGTGTGATGGTCCATCCCAGCTCACTGCATACATCCATCGGCTCC
 CCATGGTGTCTTCACACCTGACGATGAGCCAGGCCTGAGCCCCACACAGGCCAGGGCACA
 TTCTTGGAATTTCCATTCTTGGTGTGCTGGAATCTCTCAATGTGACATACTTATGTAA
 ATATTGTTACTATTATTTATTTGTTCCATTTGAGGGATTGGAATTTTGTATTATTTAGT
 TTTATTTTGAACCAAGCATCTATAGAAACCAAGAAAGTCAGCATGTAAGCGTCACTGG
 AAAAAGTGGTTTAAAGCAAATAGAGCCGTCTGGGATTGTAACTGAGGTGCAACTGTCATG
 AGGCCCAGGCAGCTCTGTAACATCTTCTATAGATGCCCTGGCTACCCTGTTGTTTTTCT
 CTACCTCAGACCCCTATCATGGGGCTCTACCCTGTGACAAGAGCCAAACCCATTCTCCAT
 GGCCTATGGAAGCCTCACTGGAGTTTGGGGCCTGCTGCAATGGGGATGAGATGGTTTTTT
 GTAGAATTATACTTACGTTCCCTGGATGATCTCTAGTTGATTTTTTAAGTTCTGAGTTGA
 TGCTGTTAAGGTACCCGGGTAGCCATTGGTCTTGGATCTGTGTTAGAATGAGTGCTTT
 CCCTTCTACTGATGTGATTGTGGATTAGGAATTCGTGACCGAGTGATTTTTGGCCAGTG
 GTTGGGTTTTAAATTTCTATTAATTTGTAGTTTGGGC

Gene 166. >ENST00000299432 cDNA sequence

TTTCACTTGGAGGAAAGAGAGAAGGAAGGAAGCTGAGGACTTAGCAGGGTATCACTGGAC
 AGGCCATGGCTCCACGGTCCCGGCGACGAAGGCACAAGAAACCTCCCTCATCAGTGGCTC
 CCATCATCATGGCCCCAACCACAATTGTGACCCCTGTGCCTCTGACCCCTCAAAACCTG
 GCCCTAGCATTGACACACTTGGCTTCTTCTCCTTGGATGATAATGTTCTGGCCTATCGC
 AGCTGATCCTTCAAAAGCTGAACATGAAAAGCTATGAAGAATATAAGTTGGTGGTAGATG
 GGGGTACCCCGTATCAGGCTTTGGATTTGATGTCTCAAGAAATGTTCCAGAGGATGG
 AAGACACATTTGATCTGTGCTCACTGTAGAGCACTCCCTAGTGGGCTTTCAGACTCCA
 AGGTTCTCCGGCACTGTAAGAGGTGCAGAAATGTCTATTACTGTGGTCCAGAGTGCCAGA
 AGTCAGACTGGCCCGCACACAGGAGGGTTTGTCAAGAGCTTCGTCTTGTGGCTGTGGACC
 GTCTCATGGAATGGCTTCTGGTCAAGAGCACTCAACTTCAACCCCTGGAACCTGGCACA
 ATTCACTTAGTGCCCAAGGGGCTCTACCATGACTTCTGGGAGGAGCAAGTAGAGACC
 GGGCAGACACACCATCCAGATTGGTGGCGGCATTCCATCCAGGTTTTATTCTCCCCA

FIGURE 1 (CONT'D)

GACTTGATGGAGGCTTGGCTGCCACCCCTGCTGCTACTTCGTGACTATAAGATTCTTACA
TTGATTACTGTTTACAGCCATCAGGAGTTGGTATCCTCTTTGCAGATTCTGGTGGAAGTG
GATACACACATCACTGCCTTTGGGTCTAATCCTTTTCATGTCCCTCAAACCTGAACAGGTC
TATTCAGTCCCAACAAGCAGCCAGTATACTGCAGTGCATACTATATCATGTTTCTTGGA
AGCTCCTGTGAGCTGGATAATAGGCAATTAGAAGAGAAAGTGGACGGCGGGATTTAAATA
GATCATAACTGGACATCTGGAACCGGGGAGTTTGTGATGAAATTACCCTGCTAATGCCA
GGTTCTTGCAAACCTTTGAAAAACATTATATTCTAAACCTCATTTACTGTTTGGGTAAAAA
TTCTAAGCTGAATGAGAGTTTCTGTATAACATAACTGGTTTCTTTCTTTTTTTGAGATGG
AGTCTTGCTCTGTTGCCAGGCTGGAGTGCAGCGGCATGATCTCGACTCACTGCAGCCTC
CGCCTCCTGGGTTCAAGTGGTTCTCCTGCCTCAGCCTCCCTAGTAGCTGGGATTACAGGT
GCACACCACACACCTGGCTAATTTTTGTATTTTTAGCAGACAGGGTTTCACCATGTTGG
CCAGGCTCGTATCAAACCTTGACCCAGGTGATCTGCCTGCCTCAGCCTCCCAAAGTTC
TGGGATTACAGGCATGAGCCACCATGCCAGCCAATGTAACTGGTTTCTAAGAGTTTAGC
CACAGTAGCTTCTAGAGATAGGAAATTAGATTTAGTGGGTGGGAAGAGGCCCTGATGCTG
GTCTTTCCAGAGCTTATAGTTGCTAACACTTTTCTTTGTAAAGAAGTTTACCTTTTGACT
GGAACCAGATGGCACTGAGAAAAAGAATGAGAACCACCTTATTCTTCTGAAAAAGACTTT
CTTCTCATCCAGTAATTTGGGCTAAAAAATGGAAGATGTTGATGACTTGAAGTGATGCA
AGAATGGACAAGTCAGGGAAGTCATTGGGAACATGGATGAGGTTGTAAGCATTGGTACAG
TGTCTGTTTTCTGACTTTTTTGGAGAAATGTCTACTTTTCTGTTTTCTCTTGGGGAC
TTTTGACCCTAGAGTAGCCCTGGTGTATATTTTAGATATCCCAAGCTATATCAGACTTT
ACCTGAATATACTGGAGTTACTTATTATCCCCCATTCTATACCCCAATAAACTCAGTTTG
GGGCTTCTT

Gene 167. >ENST00000286621 cDNA sequence

GAAGAGGGGGCGGGACCAGAGAGTGGATGGCAGAGGTGGGCTGTAGAGCCAAAGTGGGGT
GGGAGCGCGAAGATGGCAGCTGCTGAGGAGGAGCCGAAGCCCAAAAAGCTGAAGGTGGAG
GCGCCGCAAGCGCTGAGAGAAAATATTCTCTTTGGAATGGGAAATCCTCTGCTTGACATC
TCTGCTGTAGTGGACAAAGATTTTCTTGATAAGTATTCTCTGAAACCAAATGACCAAATC
TTGGCTGAAGACAAACACAAGGAAGTGTGTTGATGAACTTGTGAAAAAATTCAAAGTCGAA
TATCATGCTGGTGGCTCTACCCAGAATTCAATTAAAGTGGCTCAGTGGATGATTCAACAG
CCACACAAAGCAGCAACATTTTTTGGATGCATTGGGATAGATAAATTTGGGGAGATCCTG
AAGAGAAAAGCTGCTGAAGCCCATGTGGATGCTCATTACTACGAGCAGAATGAGCAGCCA
ACAGGAAGTGTGCTGCATGCATCACTGGTGACAACAGGTCCCTCATAGCTAATCTTGCT
GCTGCCAATTGTTATAAAAAGGAAAAACATCTTGATCTGGAGAAAACTGGATGTTGGTA
GAAAAAGCAAGAGTTTGTATATAGCAGGCTTTTTTCTTACAGTTTCCCCAGAGTCAGTA
TTAAAGGTGGCTCACCATGCTTCTGAAAAACAACAGGATTTTCACTTTGAATCTATCTGCA
CCGTTTATTAGCCAGTTCTACAAGGAATCATTGATGAAAGTTATGCCTTATGTTGATATA
CTTTTTGGAAATGAGACAGAAGCTGCCACTTTTGCTAGAGAGCAAGGCTTTGAGACTAAA
GACATTAAAGAGATAGCCAAAAAGACACAAGCCCTGCCAAAGATGAACTCAAAGAGGCAG
CGAATCGTGATCTTCAACCAAGGGAGAGATGACACTATAATGGCTACAGAAAGTGAAGTC
ACTGCTTTTGCTGTCTTGATCAAGACCAGAAAGAAATTATTGATACCAATGGAGCTGGA
GATGCATTTGTTGGAGGTTTTCTGTCTCAACTGGTCTCTGACAAGCCTCTGACTGAATGT
ATCCGTGCTGGCCACTATGCAGCAAGCATCATAATTAGACGGACTGGCTGCACCTTTCTCT
GAGAAGCCAGACTTCCACTGA

Gene 168. >ENST00000330453 cDNA sequence

GGTAGTGGCGGGTCGGCAAGGCACAGCACGACCTGGTGGACCAGCCACTGGGAACAAT
GAGTCTATGGTGGCCAAATCCAGCCTTGTCTCCTCACTTTGTCAAGGGACAATTTCAAGAG
TACCAGGAGAGCATAATCAGAGCAGCCTTCTTACACAGACTGTCTGCTTAGACGACACA
ATAGTCAAGTTTGGATCTGGGGCAGCGCTGGACAGGAGCGGTATCATAGCCAGCCCCC
ATGTACTATGAAATCACCAAAAAAGATACATTTGCACCAGCCAAGAAATGGGTGAAGGAG
CTAGAGAGGCAGGCCAGCCCCAACATTGTCACTGTACTTGTGGGTAAACAAGGCAGACCTG
GCCAGCAAGAAAGCCCCAGAATTCCACGAAGCACAGGACTATGCAGACGACGACTTGACT
ATGGAGACATCAGTAAAGACTGCAATGAACGTGAATGAAGTTTACACGGCGAGAGCTAAG
AAGATTCTAATAAGCCCCAGAGTGCACCTGGTGTCTCCAGGCCAAAAGTGA

Gene 169. >ENST00000277847 cDNA sequence

FIGURE 1 (CONT'D)

AGGTCACCTGGAAGGACTGAGCGCATTTCAGGAGCCTGGAGGAACTCATCTTGGACAACAAT
CAGCTGGGGGACGACCTTGTGTTGCCAGGGTTACCCAGACTGCATACCTTAACCCCTCAAC
AAGAACCGAATAATTCTTAACCTTTGTCACTCACTGATTTGGAGAACCTGCTGGATCAC
TTGGCAGAAGTGACACCAGCTCTGGAGTACCTCAGTCTGCTGGGCAACGTGGCCTGTCCC
AACGAGCTGGTCAGCTTGGAAAAGGATGAGGAAGACTACAAGAGATACAGATGCTTTGTT
CTGTACAAGCTGCCCAACTTGAAATTTCTGGATGCCAGAAAGTAACAGACAAGAACGA
GAGGAGGCGTTGGTCAGAGGAGTCTTCATGAAGGTGGTGAAGCCCAAG

Gene 170. >ENST00000313314 cDNA sequence

GGCGCCGTTTCCAGTTGAGAGATGGCGGCCGCCGAGGTAGATCGCTCCTGCTGCTCCTC
TCCTCTCGGGGCGGCGGCGGCGGGGCGCCGGCGGCTGCGGGGCGCTGACTGCCGGCTGC
TTCCCTGGGCTGGGCGTCAGCCGCCACCGGCAGCAGCAGCACCACCGGACGGTACACCAG
AGGATCGCTTCTTGGCAGAATTTGGGAGCTGTTTATTGCAGCACTGTTGTGCCCTCTGAT
GATGTTACAGTGGTTTATCAAAATGGGTTACCTGTGATATCTGTGAGGCTACCATCCCGG
CGTGAACGCTGTCACTTCACTCAAGCCTATCTCTGACTCTGTTGGTGTATTTTTTACGA
CAACTGCAAGAAGAGGATCGGGGAATTGACAGAGTTGCTATCTATTACCAGATGGTGT
CGCGTTGCTGCTTCAACAGGAATAGACCTCCTCCTCCTTGATGACTTTAAGCTGGTCATT
AATGACTTAACATACCAGTACGACCACCAAAAAGAGACCTCTTAAGTCATGAAAATGCA
GCAACGCTGAATGATGTAAAGACATTGGTCCAGCAACTATACACCACACTGTGCATTGAG
CAGCACCAGTTAAAACAGGAAAGGGAGCTTATTGAAAGACTAGAGGATCTCAAAGAGCAG
CTGGCTCCCCTGGAAAAGGTACGAATTGAGATTAGCAGAAAAGCTGAGAAGAGGACCACT
TTGGTGTATGGGGTGGCCTTGCCTACATGGCCACACAGTTTGGCATTTTGGCCCGGCTT
ACCTGGTGGGAATATTCTGGGACATCATGGAGCCAGTAACATACTTCATCACTTATGGA
AGTGCCATGGCAATGTATGCATATTTTGTAAATGACACGCCAGGAATATGTTTATCCAGAA
GCCAGAGACAGACAATACTTACTATTTTTCCATAAAGGAGCCAAAAGTCACGTTTTGAC
CTAGAGAAATACAATCAACTCAAGGATGCAATTGCTCAGGCAGAAATGGACCTTAAGAGA
CTGAGAGACCCATTACAAGTACATCTGCCTCTCCGACAAATTGGTGAAAAAGATTGATCT
GCAAAAAGCCTCTGAATCCTGGCAGAAGGAACACCTGTTTGCCTTTTTAATTAAAGCATT
GCAGGTGGAAGCTGGGAGCCATGTGGGGGGTAGAGCGTTTTTACCTTTAATTATAAAACA
AAAAAGAGGATCTGAGGGAAGAAGGGAATGTTAAACCTGAGGATCAGGCATTGTGG
AATATAAGCTCAAAGGGCTTAGTGAATATTGTCTTAACCAAGTATCTCAGTTTCTGGATG
AAAATGATGCAGTTATATAGTTGAGAGATTATAAAGAGAAAACAATGCTGGGGGTGTTT
GTTTTCTTGATCTTCTTTGCAGAGTCAGCAAAAGAGTAACACACCAGCACCCCACTCGAC
TCTATTTGTTTTTAATTTAACTGTCCCTATTTTTTGACATAGGAGTAAATAAATATACTAG
AAAAGCAAATTTCTCATGATATGCTAAAATATCATTAGCATTATTTTTAAATTGGACCCAG
TCTCTGCAGAGTTACCAGGAATCTTTCCTTCCAGCATCCCTTTACTGACCACCTACCTGT
ACCTCTTGGTTACACTCATTTTTTCCATTTGATAATTGGAACCAACTTATAACTGTTTAA
TAATTGACACTTTAGATTATCTCTTAATACCTTCTTAAATGTCTATATATCCAGTGCTC
TGGATCAGTGTCTAAAAATCACTGGCAACACTGCATGAGGTTGTTGGTTTTGTTTTGTTT
TATTAATTAGTCTTTCACAGGAGGAATAATTGCCCTCCTTTATATACTTATCTATTGATA
ATCCCTCTCCCTCCAGAACACAAATCAGAGGGAAAGGGGGTGTTCAGCTGTACTACCAA
ATCAGGAAGATGTAAGGTTTACAAATTGGCTAAGAATCATGGCTCTGTAGCCATTTCAAC
CAGAATAATTTTATTGCTAATCTGCTTTGTGTGACAGCATTCCAGGCCAGCCAGATGGGA
CTGCCTTGTCTGGAGGCTTTGTTTCATCTCGAAGGACACACACTTCCACACTGTTTGTGAG
CCCTCCCACTCCACAACTTCAGTTGTAAATCAAGTGTGTGGATCTCAAAGGGTGCAATT
TATCTTTATATAGGAATACATTTCTAGGGCTTCTTCAAGCCCACTCTCTTCACCCTATT
TTTTCTTATCTTAAATTGAGAGAAAGAGAATTAATCTTATACTTTGTCAAAACATTTTCT
ACCATATTTCCAGATGACATCTGCGCTTGAAGAGTCAAAGGAATCTGTGTCTAATATCCT
GTTTTTAACTGCTGTAGGGGCAGGATGGAAGGATGATGGGGCTGCCACACCACTGATT
GGCCTTTTTCTTTACGTGATTTCATCTTCTCATTGTGGCAAGGAGTTTCTTTCTCTTTT
TCTTCTCCTTTGGGATCATTGTGTATGAAAAGAAAACTTTAAATGACAAACCCAGACT
CCAGGTGCCTTGCAAGGTTGAAGGCCAGCCAGGATTGCTGCTGCTGCTGCTACTCCTGC
CAACACCCCTTTTATTGGCATGACGGAATGAAAGGATGCATGTCTCCTTCCCTGACCCCT
CCGCCCACTTCTTCTCCCTCCACCACCCCAAGTCGTGAGTCTCTTCCCTCATTTATTTT
TGTTAAGTTGTGTGAATTATTTTAAACCATTTATCCTGTTTGTGCATAGGGTTTTTAAG

FIGURE 1 (CONT'D)

AAGAAACAGCAGTGTCAACGAGCAAATCTTTTTGGGGTGTGTGGGAAGCAAGGGAGGGG
GGACATGGAGAAAAGTTCTTTAAACAAATAGCAAACCTATTTGAACATGTGTAAATTCCTGT
ATCATTATGAAATATGTATAAAAAGCAATGTACCTTCTGGAACAATAAATACCTTATTCA
ATTTTTG

Gene 171. >ENST00000286508 cDNA sequence

[illegible]

Gene 172. >ENST00000298482 cDNA sequence

FIGURE 1 (CONT'D)

ATGACCCAGCCGGTGCCCCGGCTCTCCGTGCCCGCCGCGCTGGCCCTGGGCTCAGCCGCA
CTGGGCGCCGCTTCGCCACTGGCCTCTTCCTGGGGAGGCGGTGCCCCCATGGCGAGGC
CGGCGAGAGCAGTGCCTGCTTCCCCCGAGGACAGCCGCTGTGGCAGTATCTTCTGAGC
CGCTCCATGCGGGAGCACCCGGCGCTGCGAAGCCTGAGGCTGCTGACCCTGGAGCAGCCG
CAGGGGGATTCTATGATGACCTGCGAGCAGGCCAGCTCTTGGCCAACCTGGCGCGGCTC
ATCCAGGCCAAGAAGGCGCTGGACCTGGGCACCTTCACGGGCTACTCCGCCCTGGCCCTG
GCCCTGGCGCTGCCCGCGGACGGGCGCGTGGTGACCTGCGAGGTGGACGCGCAGCCCCCG
GAGCTGGGACGGCCCTGTGGAGGCGAGGCCGAGGCGGAGCACAAGATCGACCTCCGGCTG
AAGCCCGCCTTGGAGACCTTGGACGAGCTGCTGGCGGCGGGCGAGGCCGGCACCTTCGAC
GTGGCCGTGGTGGATGCGGACAAGGAGAACTGCTCCGCCTACTACGAGCGCTGCCTGCAG
CTGCTGCGACCCGGAGGCATCCTCGCCGTCTCAGAGTCTGTGGCGCGGGAAGGTGCTG
CAACCTCCGAAAGGGGACGTGGCGGCCGAGTGTGTGCGAAACCTAAACGAACGCATCCGG
CGGGACGTCAAGGTCTACATCAGCCTCCTGCCCTGGGCGATGGACTCACCTTGGCCTTC
AAGATCTAG

Gene 173. >ENST00000321905 cDNA sequence

GAATCACTCCGACCCCCCACCTCCGCCAGATCCCGAGAAAAAGAAAGCCCTAGGGTGG
CAGCCAGGGTAGTGGTCCAGTGCGATCCAGAGAGAGGGTCTTACCTCGATGGGGCTGA
CCGGCGTGGAAGGCAGGGGCTGCAGGTACTCGGGGTGCAAAATGTGGCCAGTTCTGTCCG
TCAGCATCTTCAGCACCTTGATTGGCAGGCGGTTGGCCTGGCGCAGGGGGTCAAGGGGG
GCACGGCGTGCAAAAAGGCTTGGTGCTGCCCGCCGGGGACGAGCCTGGGCCGGGGCCGG
AGCTATTTCCAGAGAGCGCGTGGTCCAGGCAGGGTCTGCACCGCCGCCTCCGCCTCCGC
CGCCGCCGCCCGCTGTGCTTACTGCTTCTTAGGGCAGAAAGCGAGGGCGCTGTGCTCA
TGACCCACCCGCGCGCATGGGAGCAGCGGGGGGAGGGCTCCGGGAGGCGCGGGGCGGGC
TCGGGGCTGCGCGCTCGCCCCGGGAGCAGGAGCAGCGGGAGGAGGAGCTGGCGCGGC
GGCCACGGGGCGCCAGCGCGCTTCTCGGCGCCTGGAGCCAGACGCGAGTAATCCTGGGT
GGCCCGCAGCGGAGCCGTGGCCGGGCTAGAGGAGCCGGCTGGACTGCGGGAGTGCCGGGC
GGCTCGCGGTGTCCGCCTCGGGCTGCTCCCCCTGCGCTGCGTTCTCGCGGCCCGCGCCGG
CGCTGCGCTCTGCGATGCGAGCCGCTGCGTGTCCAGCCGGGGCTCTGGCGAGGAACTCA
CTTCAAAGCAGCTGCACCAAGGGGGAGATTAAAGCCTTTGCCGCTTCCAATCAAATGG
GAGCCCGAGGTGATTGGAGGGTCAAGGGGATGTGACGCGTCCCGCGCCGCCCGCCCGCC
GCTGCCAGGACTCTCAGTGCCGGTTTTTAATGGGCAGCTCCCTCTTCGCCGCCCCCTGTG
TGTCCCCCTCCCTCGATTTTCGCTGGGAGGACGAGATGGACATTTATTCTACGTTTGCCATC
CGCCGCCTCCCTCTTTTTTCTCCTCGTCTGTTCTTCTTTCCCCAGCTCGAAAATAAACT
GAAACCTTCTTTTGAAGGGGGGTGCGCGTGAGGAACAGACTGCGGGGGGTGTCCAGAAGG
AGCACCGGTGGGAGTGTGGACACCGGCCGGACTGTCAACTCCAGGGGCGAAGGGAACCTG
CACACCCAGTGTTTTTTCTTTCGAGTAATCGAGATCCCGCGCGGCGCAGCGCAGCCACC
AGGGTAAGAAGGCAAGGTGGGGAGCCGGAGCTGGAAGAAGCCCGCCCGCCGCTCTAATT
TCCTCAGATTCGCGGGCGGAGAAACAGAAGCTAGATGGGCAGTCGAGCGGCGGCGGCT
CAACACCGCGAGGAGCGCTGGGCTCTCCGCCCTTCCCGGCCACGTGACGCCCGGGGACGC
GTAGATTGGGGCAGCAGCGGGGGTCAATGTTTCTCTGTTTCAACCTCAGTCTGTCCCC
CAACCCCCATTCTTACTCTCCACCTGTTTTCTCCTCCCTCCCCCTTCTTTGGGCATC
TCCACCCCTCCATCAATTGTCAATGTTCTCGACCGCAATCAATCAGTTATTTGTGAGCT
CTTGTCATATCCTCCCGTGATTTATGTGAGCTTTTGTGCTGATTACAAGGCGGGTGGAC
TTGAAGGGAAAAAGAGAGAGGGAGAGAGAGACGGAGAGGAAGGAGGAGATTGAGAGGGAA
CTGGAGGAGGGGAAAAGAGGAGCGGCCTCCTGGGATGGGGGTGGGGTGGGGGCTCTAAGA
AAAAGAATGAAAGAGGCGCACGGTGTGAGGAAAATGAATAGCGAGAGTAAAGTGCAGG
TGCGCCAGGGCGCCGAGAGGGGCGCGCAGGCCTGGAGTGTGCGCCTGCCCTCTCGGTGT
CGGAGAGACGCCCTTCCACCTCTGGGAGCCTCGGTCTGTTGGGGTTCGCGGAGTTTCGGGCG
CGGCTCCGGGTACCCGAGACCAGCGGCGGCAACTTCTAACACGGGAGATTTCCCGCCACC
CCACCCCGCCCGCGAGTCTCGCGGGGCGTGTGCGTGCAGGAGTCAAGGCTGCCACCC
TCTGTAGTTCCCTAACCCCAAACCTCGGAGACTTCTAAGAGCCACACCAAGGAACTTC
TAGTCTGGAGGTCAATGGTGGGGCAAACCTCGCCTCAATTCTTTGACCCCTCGGGTCG
TAAGCAGGGCTAAGAGGCTGCGAAGAAGAGGCCTGGCCATGGGTGTATGGGGGAAGAAAC
ATCTCAGGCTCACTCATGCCCTTCCCGACCTTCTCCACCTGCCGCCATCCCCGAGG

FIGURE 1 (CONT'D)

CTGGGGAGCCAGGGTAACTCGGGGCTGCTCTCTCGAATTTATTGGAACGCCGAGTCGGAA
 TGAGCTGCGCTAGGAGAGCCGAGGGAAGGAGCGAGAGAGGGAGGGGGCGGCTGCCTGTGG
 GAACGCGGGTTCTTCCAGGGAAGCGGAGCGGGACTGCCGCTTCCCTCGATTTGCACCG
 TCACTCGGGTTGTTTGGGAAGAAAAGGGGAGGCGCTGTGCGTGCCACCGGGTACCTGGAC
 CTGGATGCCAGTGTGTATGCATGCCTGTGGCGCTGCGTGAGTTATCGGGGCTCTGATAG
 CGTCCGAGCGGGTTTCGAGGGTCTCCTCCAGGAACTCGCAGAAATTAGAGGGGGTGGGGA
 GGAGGACACACCCCTTCTCGGAACGACTTAGAAGACTTTGAATCTCCCTCCTCCGCT
 TTTCCGCCCCGGCTCTTCTTTTGTGTCAAGTCCTTTTGATAAATGGTGGGGCTGGGAGC
 TCTGGGAGTCGGGAGCCAGTCTGTGCCCGCTGGGGGGCGGGGGCGAGCCTGGAGACCC
 GGTTCGACCGGCGCGACCTGGGGCTGAGCCGGGTGCGCGGGGGTGGGTCTGGAAC
 TGCCCTTGGTATGCTCGCCCTCTCCTCTTGGCCCATCTCACTCCCTCCCCACCTGACT
 CCCCTCCCCGGCTTCTTTCTCTGTCTCCCACTCCGCACGGGTACCGAGAACTTTCGGGG
 TGAGTTTGTAGAATTTGCTCCTAGGCATTCTTTTTCTGCGTTTGGATTTTATCCCTTGATT
 CTTTGGGTTGGTAACTTTATGAAATGGTAACTTGACTGAAGCTCATTGGAGAGAAGAG
 GGGAGTGAGGCGGTGTGTGCTTGGGGCTGGTGTGTGTGAGTGTGAGCGTGAAGAGCACA
 CCTGCATTCAAGGGGGTTGTAGTGTCCGTGCGACATCTGAGGGAGGTGAGTCGGCGAGC
 GGGTGGCGAGGCCCCACGCTGAGGGAGGCGGTGTCTGGTCTCCGGGGAGCAAGTCCCAG
 GTGCGCGTTTTCGGAGGGCGGGACAGTCCTACGCTGTCTCTGCGGGGCGAGCGCTGTGTA
 AGCACTCTTATCCTTCGGGTGTGTCCATGTGTGCTGCTGGTTACTGAGTGCAGCGCCGTCTA
 GGTGTGACACCAACCAATGGTAGTGTCTTAACGCCGCGAGCCACCTTTGGGCCGTAT
 CGCCGCGGCCTCCCCGCGAGGCCCGGGCACTGAAATTCTGGGGCCTGCGACAGGGCCGGG
 GGGGACGCAGCCAAGGGCGTCCCTCCCCAGCCTCCAGACTCAGCTCTTCCCCCTCTCCTC
 TAATTCAGCAGCTTATTACGCCGGCGGCTCAGGGGAGGCAGCCTCAGCACCTGAAGCCT
 GGGGGGGCCGTGGAGTGGCTCCTGCGTCCCCCGGTGTGGCCACACAGCTCGTGGGGCTG
 CGCTGTGCTGCGTGGGTGCGGGTGTGGTGTGCGTTCGCTTTTCTCAAACTCCAC
 TCCGAGGGTCCGAGCGCATGGGGGCGCTGGGGGCGTGCAGCGCCGGGGCTTTTGGGAGG
 CGCCAGCGTCCGAGCCTGCGCACCTCGCGCAGGAGGCCAAACCCCCGAAGGCCGGCGCGG
 GCCCGGGAGTGGGGGCATTAACTCTGCGCCAGGCCTAAAGCCTCCAACCCCCAGCA
 GCAGTTGGCGTGGATGTCTGCGGATTTTATTTGCAAACAATGGAAATGATTGTCTTCT
 CTAAAAAAGGAGTGGGCAAGGCAGATATTGGAGGAGGGGTGGGAGGAGGAGAAGGAAGG
 GGAAAGAGCTGAGGAAAAAAGTTTGAATATGCCTTGAACTATTCACTGTGAGATGGCTA
 ATCAGTATTGAGGCCGAGGGCAGGCGGGCCGCTTTACCGCGCTTCCCTTTTCATCTC
 GGGCTCGGCGGAGGCGCTCAATTAAGCCTATCAGTTTGTAAAGT

Gene 174. >ENST00000331566 cDNA sequence

GCAGAAAAGAAATGGTTTACAGATGAACCGGATAATGCCTATCCCAGAAACATTCAAATC
 AAGCCCATGAGTACCCACATGGCTAACAGATCAACCAATATAAATCCACAAGCAGCTTG
 ATTCCACCAATCAGAGAAGTTGAAGATGAATGTTGA

Gene 175. >ENST00000325946 cDNA sequence

CTGTCTCTTACAGCAATAATTACCTGTGGATAATAGATTATATTATTGGAAGGGCACAC
 ACGCTTGCTGCCAGCCACGTTCTTCTTGGTGGGCTGCCCACTTCTGCTGCAGAACTGATG
 AGCATCATGCCAGCGGAGAAGAGCTTGAGCCTAGGAACACAATGA

Gene 176. >ENST00000308111 cDNA sequence

GACACCGCGAGCCGCGCCGGCACTCCCGCAGTCCAGCCGGCTCCTCTAGCCCGGCCACGGC
 TCCGCTGCGGGCCACCCAGGATTACTCGCGTCTGGCTCCAGGCGCCGAGAAGGCGCGCTG
 GCGCGCCGTGGCCGCGCGCCAGCTCCTCCTCCTCCCGCTGCTCCTGCTCCCGGGGCGAG
 CGCGCAGCCCCGAGCCCGCCCGCGCCTCCCGGAGCCCTCCCCCGCTGCTCCCATGCG
 CGCGGGTGGGTATGAGCACAGCGCCCTCGCTTTCTGCCCTAAGAAGCAGTAAGCACAGC
 GCGGGCGGGCGGGCGGAGGCGGAGGCGGGTGCAGACCTGCCTGGACCAAGCGCGCTC
 TCTGGAAATAGCTCCGGCCCCGGCCCCAGGCTCGTCCCCGGCCGGCAGCACCAAGCCTTTT
 GTGCACGCCGTGCCCCCTCTGACCCCTGCGCCAGGCCAACCGCTGCCAATCAAGGTG
 CTGAAGATGCTGACGGCACGAAGTGGCCACATTTTGACCCCGAGTACCTGCAGCCCTG
 CCTTCCACGCCGGTCAGCCCCATCGAGCTCGATGCCAAGAAGAGCCCGCTGGCGCTGTTG
 GCGCAAACATGTTGCGAGATCGGGAAGCCCGACCCCTCGCCCTCCTCCAACTCTCCTCG
 GTTGCCCTCAAACGGGGGCGGCGGGCGGGTGCAGGCGGGCGGTGCTGCGGGCGACAAGGAC

FIGURE 1 (CONT'D)

ACCAAATCGGGCCCCCTGAAGCTGAGCGACATCGGCGTGGAGGACAAGTCGAGTTTCAAG
CCGTACTCCAAACCCGGCTCGGATAAGAAGGAGCCGGGAGGCGGCGGTGGAGGCGGTGGC
GGTGGCGGGGGCGGCGGCGGGGGTGTTCGTTCGGAGAAGTCGGGATTCCGGGTACCGAGC
GCCACCTGCCAGCATTACGCCCCAGGACAGGAGCCCGAGCTCCAGCGCCTCGGCCTGC
TCGCCGGGAGGGGGACCCACGGGGCTGGCACACGGCCGGATTAGCTGCGGCGGCGGGATT
AATGTGGATGTGAACCAGCATCCGGATGGGGGCCCCGGGAGGCAAGGCTCTGGGCTCGGAC
TGCGGCGGTTTCATCGGGCTCCAGCTCCGGCTCCGGCCCCAGCGCGCCACCTCCTCCTCA
GTGTTGGGCTCTGGGCTGGTGGCTCCCGTGTCAACCTACAAGCCGGGCCAGACAGTGTTTC
CCTCTGCCTCCCGCGGGTATGACCTACCCAGGAGCCTGGCCGGGGCCTACGCCGGCTAC
CCGCCCCAGTTTCCTGCCACACGGCGTGGCACTTGACCCACCAAGCCGGGCAGCCTGGTG
GGGGCGCAGCTGGCGGCGGCGCGGCGGGTCTCTGGGCTGCAGTAAGCCGGCCGGCTCC
AGCCCTTTGGCCGAGCGTCTCGCCGTCCGTGATGACAGCCAGTTTGTGCCGGGACCTT
TACTGCCTCAGCTACCACTGCGCTAGCCACCTGGCAGGGGCGGCGGCCCGCAGCGCTTCT
TGCGCACATGATCCGGCTGCTGCGGCTGCGGCGCTGAAGTCCGGATACCCGCTGGTGTAC
CCACGCAACCCGCTGCACGGTGTGCACTCCTCGCTAACGGCCGCGCGGCTGCTGGCGCC
ACACCGCCCTCCCTGGCCGGCCACCCCTCTACCCCTACGGCTTTATGCTCCCTAACGAC
CCACTCCCCACATCTGCAACTGGGTGTGCGCCAACGGGCCGTGCGACAAGCGCTTCGCC
ACGTCCGAAGAGCTGCTGAGCCACTTGCGGACCCATACGGCATTTCCTGGGACAGACAAA
CTGCTGTGCGGCTACCCAGCTCGTCTGTCTGCGCCAGCGCTGCCGCGGCCGCCATGGCT
TGCCACATGCACATCCCCACCTCGGGCGCACCGGGCAGCCCTGGGACGCTGGCGCTGCGC
AGCCCCCACCACGCGCTGGGACTCAGCAGCCGCTACCACCCCTACTCCAAGAGCCCGCTT
CCCACGCCTGGCGCCCCCGTGCCTGGTGCCTCGCCGCCACCGGACCGTACTACTCCCCCTAC
GCCCTCTACGGACAGAGACTGACCACCGCCTCGGCGCTGGGGTATCAGTGA

Gene 177. >ENST00000299408 cDNA sequence

AGAAGCAGCAATGGTCCCTCCAGGGAACGGAAGCCGTTGAACGTGAACATTTGGAGTTTC
CTCTTTTGTGCTGATTCTTGAGGACTAGGAAGGTGCCCCGAAAAGAATTAGAGACCTGA
CAATGTCCCTGTATTGTGGAATAGCTTGAGGAGAAAATTTTTTGGTGTATAGGCTGC
TGTCAACCTATGTTACTAAGACACGGTATTTATTTGAACTGAAGGAAGATGATGATGCAT
GTAAAAAAGCCCAGCAACAGGAGCGTTTTACCTCTTTCATAGTCTGGCTCCTCTGCTTC
AGACTTCAGCACATCAATACCTGGCCCCCGGCACAGCCTGTTAGAGTTGGAAAGGCTCC
TGGGTAAATTTGGACAGGATGCACAAAGAATAGAAGATTCTGTGCTGATTGGATGCTCTG
AGCAGCAGGAAGCATGGTTTTGCTCTGGATCTAGGTCTGGATAGCTCCTTTTCCATAAGTG
CCTCCTTACACAAACCTGAAATGGAGACAGAGCTCAAGGGGTCTTTTATTGAGCTGAGAA
AGGCACTCTTTCAACTCAATGCAAGGGATGCCTCCTTGCTGTCCACGGCTCAAGCTCTTC
TCCGCTGGCATGATGCTCATCAGTTCTGCAGCAGAAGTGGGCAGCCACCAAGAAGAACG
TGGCTGGCAGCAAGCGTGTGTGCCCTTCAATAATATAATCTATTATCCACAGATCCAGG
TGAACCTTGAGAGAATTAGAGACAGCTGCCTGGTTTCAGTCATGATGAGGTAGCCACAGCCC
TGAAGAGAAAGGGCCCCCTATACTCAGCAACAGAATGGGACTTTCCCATTTCTGGCTGCCCC
CTAAGTTAGCCATCTCCACCAACTGATTAAGGAGTGGGTGGAAAAACAGACCTGTTCTT
CCCTGCCTGCTTAGCCCGGATCAAGTCACTTAGATCGCTCCTTGGTATTCTGAGGGACA
AACTAGAGATCAGTTGAACAAAGGAGAAGTGACAAAAGATAAGCTGCAGAAGGACCTCAGA
AGGGCAGAGCAAAGGGTGAGCCTACAGTAAGACACTTCTATCAGCAGTGTTAATGGAAGA
AATTCCTACCAATGGGCAATCAAAAAAGCCAGTGTGAGAAGAAAACTGATGAGCTGTCAA
CTGTCAAAAATCAGGGGGAAGGGGAAGCATTAGTTTGGATGTAGGCCCTTGTTCAGTCA
TTTTCTCTAAGGCCTTGGAAGCAACATCTTCTGGCATATGGCTTGTAAATGTTGTGTTT
ACACTAACTGCCAAAATGTGCCTGTTGTAAGTTTGGTTAAACTTTTATCTTAGTATTGA
AAATATATAGCAAGTTTAAAGTCATTACTGAGTTACTTGTACCCCTTACAGAATTAAGAA
AAATAGCACAGTATGACATTTTAAATTCATGTACAGGTGCATTCTAGTTACATGAACAT
GCTAGTTAAATAAAAGTCACAATTAAGTCATTATGACTCAGAGTACTTTATAATAAATCA
GATGCCCTGAGGCTCTGTTGAGGAAGTAGAATCCCAATGGGACTCCAGACAGTAAATCTT
TTTCGCTGTTTTTCAGCTCTGTACATGCTCAGTTTGTGACCCAGGAAAAGACTATTGCT
TTGCCATGCCTGTTTTCTAAATAAAACAGTTGCTGGCATTGTGCACATCCACAACGTGTT
GATTAAACAAAGGGATTGGTGGAGATAAACAGATGCCAAACCTGACCTATTTCTTAAACTT
TATGGAATAAACTAAATTTAGGATTTCTCATCATTATATATGATGCCATAAGGGAGAAG

FIGURE 1 (CONT'D)

AGTTTATTTGGGGAAAATAAAAGAAATTTCCAC

Gene 178. >ENST00000335635 cDNA sequence

GGGTAAATTTGGACAGGATGCACAAAGAATAGAAGATTCTGTGCTGATTGGATGCTCTGA
GCAGCAGGAAGCATGGTTTGCTCTGGATCTAGGTCTGGATAGCTCCTTTTCCATAAGTG
CTCCTTACACAAACCTGAAATGGAGACAGAGCTCAAGGGGTCTTTCATTGAGCTGAGAAA
GGCACTCTTTCAACTCAATGCAAGGGATGCCTCCTTGCTGTCCACGGCTCAAGCTCTTCT
CCGCTGGCATGATGCTCATCAGTTCTGCAGCAGAAGTGGGCAGCCACCAAGAAGAACGT
GGCTGGCAGCAAGCGTGTGTGCCCTTCCAATAATATAATCTATTATCCACAGATGGCTCC
TGTGGCGATCACGCTGGTGTGAGATGGGACCCGATGCCTGCTTGCCCGCCAAAGCTCCTT
TCCCAAGGGAATGTATTCTGCCTTGGCAGGTTTTTGTGATATAGGTGAAAGTGTGGAAGA
GACCATCCGCGAGAAGTTGCAGAAGAGGTGGGATTGGAGGTGAAAGCCTGCAGTACTA
TGCATCCCAGCATTGGCCCTTCCCTAGTGGCTCACTCATGATTGCTTGCCATGCAACTGT
GAAACCAGGGCAGACAGAAATCCAGGTGAACTTGAGAGAATTAGAGACAGCTGCCTGGTT
CAGTCATGATGAGGTAGCCACAGCCCTGAAGAGAAAGGGCCCCTATACTCAGCAACAGAA
TGGGACTTTTCCATTCTGGCTGCCCCCTAAGTTAGCCATCTCCACCAACTGATTAAGGA
GTGGGTGGAAGAAACAGACCTGTTCTTCCCTGCCTGCTTAGCCCGATCAAGTCACTTAGA
TCGCTCCTTGGTATTCTGAGGGACAAACTAGAGATCAGTTGACAAAGGAGAAGTGACAA
AAGATAAGCTGCAGAAGGACCTCAGAAGGGCAGAGCAAAGGGTGAGCCTACAGTAAGACA
CTTCTATCAGCAGTGTTAATGGAAGAAATTCTACCAATGGGCAATCAAAAAAGCCAGTG
TGAGAAGAAAACCTGATGAGCTGTCAACTGTCAAAAATCAGGGGGAAGGGGGAAGCATTAG
TTTGGATGTAGGCCCTTGTTCAGTCATTTTTCTCTAAGGCCTTGGAAGCAAACATCTTCTG
GCATATGGCTTGTAAATGTTGTGTTTACCTAACTGCCAAAATGTGCCTGTTGTAAGTTT
GGTTAAACCTTTTATCTTAGTATTGAAAATATATAGCAAGTTTTAAGTCATTACTGAGTT
ACTTGTACCCTTACAGAATTAAGAAAAATAGCACAGTATGACATTTTAAATTCATGTA
CAGGTGCATTCTAGTTACATGAACATGCTAGTTAAATAAAAGTCACAATTAAGTCATTAT
GACTCAGAGTACTTTATAATAAATCAGATGCCCTGAGGCTCTGTTGAGGAAGTAGAATCC
CAATGGGACTCCAGACAGTAAATCTTTTTCGCTGTTTTTCAGCTCTGTACATGCTCAGTT
TGTGACCCAGGGAAAAGACTATTGCTTTGCCATGCCTGTTTTCTTAAATAAAACAGTTGC
TGGCATTGTGCACATCCACAACGTGTTGATTAACAAAGGGATTGGTGGAGATAAACAGATG
CCAAACCTGACCTATTTCTTAACTTTATGGAATAAACTAAATTTAGGATTTCTCATCAT
TCATATATGATGCCATAAGGGAGAAGAGTTTATTTGGGGAAAATAAAAGAAATTTCCAC

Gene 179. >ENST00000242505 cDNA sequence

GGAATAACAAAACATGCTCTTAACCATCATCCCCCTCCAGAGAAGCTGGAGGAAATTTCC
CCCACAGTGACAGTCATGAGAAAGACACAAGTTCCCAAAGCAAGTCTGACATCACAAAGA
GAATCATCTTTTACATCAGCCGACACTGGGAATTCAGTGTCTGCTTTTCCAAGTTATACA
GGCGCAGGGATATCTACTGAAGGAAGCTCGGACTTCTCCTGGGGATATGGTGAACTCGAT
CAAAATGCCACTGAAAAAGTCCAGACAATGTTACAGCCATTGATGAACTCTTGATGAG
CAGAAGTTGAGTGTGCATACCAAGAGTCTACAAGAAGAGTGCCAAAGTGGACAGCTAGC
TTTCCTCACCTCAGGATTCTAGGTAGGCAGATAATCACTCCAAGTGAAGGTTATAGATTG
TATCCTAGATCCCCTTCTGCTGTTTTCCGCTTCATATGAAACAACTTGTCTCAAGAAAGA
GATTCTACTATATTTGGTATAAGGGGAAAGAAGTTACATTTTTTCATCTTCTATGCTCAT
AAAGCATCTTCCATTGCCAAATCCTCCAGCTTTTGTCTATGGAAAGAGATGAGGAAGAC
TCTATAATCGTCTCAGAAGGAATAATTGAGGAATACCTAGCATTGATCACATAGATATA
GAAGAGGGATTTTATGGGAAGAAATCAGAAGCAGCTACAGAGAAAACAGAAATTAGGGTAT
CCTCCCATTGCTCCATTTTACTGCATGAAAGAAGATGTCCTTGCTTATGTGTTTGACAGT
GTATGGTGCAAGGTTGTGAGCTGTATGGAGCAGTTGACACGTAGTCACTGGGAAGGATTT
GCCTCTGATGATGAGAGTAATGTTGCAGTTACAGACCCGATTGAGAAAGTTCTGTGTG
CTGAGTGAACACATCCTTTGGTGTACCGCGAGTGCCACAGTCTAAGGTGCTGTACATT
ACCTCAAATCCGATGAGTCTCTGTCAAGCAAGCAGACATCAGCCAAATGTGAATGATCTC
TTGGTTTATGGAATGCCTCTACAGCCAAGAAATCTCTCCCTAATGGACAAGCTCCTAGAT
CTTGATGACAAGCTACTTATGAGGCCTGGGTCCAGTACCATCCTTTCAACTCGAAATTGG
CCAAATCGAGCTGTGGAGTTTAGTACATCATCTCTGTCATACAGTGCAGTCCACCAGG
AGACGCAATCCACCACCAGAACTCTTCATCCGATCAGCACGAGCCATTTCATGTGCTGAA
ACACCAAGATCTGTGGAAGAAATCCTCAGAGGAGCCCGAGTCCCAGTGGCACCCGACTCG

FIGURE 1 (CONT'D)

CTCTCCTCTCCCTCACCGACGCCCCCTGAGTCGAAATAATCTGCTACCACCTATTGGCACA
GCTGAAGTGGAA CATGTGAGCACTGTGGGGCCACAAAGACAGATGAAACCCCATGGCGAC
TCTAGTCGAGCTCAAAGTGCAGTGGTGGATGAACCTAACTATCAGCAGCCACAAGAAAGG
CTCCTTTTGGCCGACTTTTTCCCAGGCCAACACAACCTCAATCATTTTTTGTCTGGATACA
CAGTATCGTCGCTCATGTGCAGTTGAGTATCCTCATCAGGCCGACCTGGCAGGGGATCT
GCAGGTCTCAGTTACATGGGTCTACAAAATCTCAAAGCGGAGGCAGACCAGTCTCTCGA
ACCAGGCAGGGACCATAAGGCAAATGAGAAGAATCTATCAGGCTGCAGGAAACACGAGAT
TTCATGAAGCAGTATT CAGTCATCAAGTGATGCAGAGCTTGTATAGAAGATCGACTAGAA
ATCATCTTCATGAAGAGTGATTTTGGCACAAGTGACCGAAGAACAAAACCATAGCAGC
CAAAAATGACATGAGTGTTGTTTCTATCTCCAGTTACTGTCTCTTT CAGCAGAAATTAAC
CTATCCCATTGGAAAGGCAAGTTTGTACCCAAAGATGCAACAGTGAATAATACCCAAATC
ACTGCTCATGTTATCTCTTAACAATGATCAGTTCAATCATATAGGATTTGATGAGCTCAC
ACATACACAAAAGCAGCAAATCATCAGTGACAATATCACTGGCTTCAGAATACTTCAGC
CTGTGTTTCAATTTCTGGAGAGTTGTACTCAGTTTTAAGTCATTTTGCTGTTGAAAATCTGA
CCTCATCAAATAGATGTCATTCCTAAACTCTCTTTAGATGTCCTACCCTATCAGCAGAT
TAAAATGGAAGGGGTGTGTAACATAAAACATAAATGTTAAGCATTAGTATAAAGTAACTT
CTGTAATAAATTATATCGCATATTTTTTTCAGATAGGACAGCTCAACCTTACGATGCCTAC
CTGATGCCAGGTGATGCTTATTTTTCTTCTAAAGTAGGTTACTGGTCATATCTTTTTTCC
AAATATTAAATGCACCTTGCCAGATATTCTCCTGCAGCTCTAAGGAAAGGAAATCAATTT
AAAAATAATTTGTAGAATCTACTATTGAGCCACCAAAGTATAATTCCTAAAAAGTTTAAG
AAACCTGGCAATTAATTCAGCATAAACATATCCTATAAACAGCAGGAGAGGTTTCAGCTT
TCTGATTTTACTGTGGACCTTTTCTAAGGGCATT CATGAATGCAGCAACAGTTTTAACT
ATGGCTTACATTTATTTTAAATTTCACTAAATACAAATCTTGATTGT CATGCCAGTTTTA
GATCTTATTAATTTT CAGAATGGATAAA TCAAATAATCATAAATTACGGTAACTTTTTTA
TTATACCAAGGTGTTCTAATGCCATCATATGAAGACAGATGCTTCAAA CAACCTGCATTA
AATTATATTTTTTAATAAAATTTAAATCTATTTTTTAACCTATTTGTAGTCACAAACCGAAA
ACGTGTCGTCTTTACCTTAGAGCTAAAGGCTTACTTTATGCATACGGTATATTTAATAGT
CTACAAATCAAAGATTTAAACAGTCCCTTAAAAATTCATATATTCTCATACCAACTCAT
CTACATAGAAATGAAAATCTCTATTGTTCTCACAAACCATTAACCATGAGTTCACTATAAC
AACTGGATCAATATGGCTTGCTTTCAAAGTTAAAGAATCAGAAAGGGGCCTGTAAGAAG
TCATTTAGCCCAATTCCTCACCTGTGTGTTTTCCCTCAAAGCCAGTGCAATTTTTTTTT
TAACCAAAAACTGGACATGTTTAATACATACAGTTTGACAAATTTGGATTTCACTCTTT
GTTTTGATGTAGTAACTCTTTTATAAAAGGGAACAGATTCAGACAAGCTCAGTGGCCCAA
CTGAAGACATT CAGCAATTAATGGCAGGACTTCAGTAATCAGTGGCAGGACTACAACATA
CATCTCTTCATGCTAGGGAAAC CAGGCTCTCTATTATAAAGCTGACCAGGGCTATTGTTT
TCCCCTTTTCTCTCATCCTAAA CACCATT CATATTTTTTCTAGGTACATTTT TAGTGGGA
TCATTTACAAAGCCCCCAGAACTTAATCATCATGTTTTACCTTTTTTTATTGAATTATATA
CACCTCTTACAAAATGCTTGAAGTAATTTAACACCTGTACATCAGTACAAAACCTGGCT
GAGTAAATGAAGAGAGGATCTATTCAAGATCATTAAGACCAAATGTAAACTGGGAAGTA
TGTGGAAGATAGCTGTCCAGCAAGTGTCTGGAAGGTGTTCTAGCTGGGTAGAGAGCCTAT
TCTAACAGACACGCACATCGCAGAAAGCAGCATGAACAGAACCATCCTAGATAAGAGT
TCTGTGTACAGAAGATCCATGGAGGCAAGTGCTGTG CAGGAAGGACACTGCCTCCCTCCAC
CCTCCCAAATGTCAACCAAGTTCCTTCAGGTGAGACCTCACACAATGTCAAGTGCTTT
CTAGGAAATACTAAGATCAGGTTGAGAGATTCTGCTTGGTCTAGTCAATCTGAAAAATTC
AGGCTGGAAAGACACCTTTTCTCAAGAGCTGAATTGACTTTTGCCTTCAAATCCTGCCTG
CACCTTGCCTACGATGGCATCAATTTACACCTAAGGACCTTTGAAGAGAAAAATTCATT
ATTTCTTTTCTTTCTTGAGAGCAGATTTTTTCCCTCCTCCTTTTGAAGATTTGCAGTACT
TTGCTTCCATCTGAGCCAGAAAATGTCCATTTCTTTTGGCCGATCCTTTTGTCTGCTCT
GTTTGAGAAGTTAAAA CACAAGCTTTCACAACATTATCCATAGACAGAAAGTACCTAGTG
GTTGCCAGGGGCTGGAAGTGAATAACTACTAATGGGTATGGAGTTTTTTTGGAAATGG
TGAAAATGTCCTACAATTGGTGTTAATAATTGTAAAACTTTGTAAATACACTTAAAACCA
CCAAATTGTACACTTTAAAAGGACAAATAGAAGGTATGCGGTTATGTCTTAAAGAAGAA
AACAAAATACAACATTCCAAAGAAAATATTAGCAGTAGGAATCAGATCATTAAGATGTG
GCAACAAACTGCCAAGTTTACCTGAATGGCTGCCTTCAGGCTATCCACGCCTTCATCAAG

FIGURE 1 (CONT'D)

CCCCAACTCCTTTCTGCTCATTCTGCTTCTTTGGCCTCTTCCTGAGCCTGAAACAGGAA
CTCACATGAGACTCAGGGCCACCAGGAAATGCTTAAAATACATACTCTTTCCAAAAGCA
AATCTATAATTCTGTTTCAATTTTATGAATATATGAATAGACAAAATGAATCGAATTACA
TAACTATGTCAATCATTAAATGGCAACAATGCTGACAGCAAGCAGTAGATCCTCTGATTC
CAATTACCATTTGTTTTTTACCCAATTCTATTTGCTAGAGGTAGTAAGTACTCTGGCACT
CATAAATCACATGATGATAAAAAGGAACATGAGGCCGGGTATGGTGGCTCACAACGTGTA
TCCCCATACCTTGGGAGGCCAAGGTGGGAGGATCACTTGAACCTCAGGAGTTCAAGACCTG
CCTGGGTAAACATAGTGAGACCTCAGTTCTATAAAAAAGAAAAGAAATGAGCCTGGTGTGG
TGGCATGTGCTTGTAGTCCCAGCTACTAGGGAGGCTGAGGTGGGAAGATGGCTTCAGTCT
GAGAGTTCAAGCTGCAATAAGCTGTGATCATGCCTCTGCACTCCAGCCTGGGTGATGGAG
ATGCCATCTCTTAGAAAAAAGAG

Gene 180. >ENST00000299416 cDNA sequence

ATTTTCAGTGTGCGATTTCAATTTTCCGTAGCAAATGTATATATAGAAAAATGTTAAATA
GATGTATTTGAATACCTTAAAAAATACAAGAACTGGAAGAAAGATAATATTGCAAAGCA
TCTACATATATCCTAGGCCTTTTGTGTACAAGTTATTTGTGACAATTGTAAGGTATTAT
GAAGGCAGGTAGGATTATCTCCGTTTTACAGATAGGGAAGCTGAGGCCTAGAGGTGGAAA
CTTGCCCACTGATGTAAGATTCTCTCCGTTTATGCCCTCCTGGAAAGCCCTTCCCAAC
ATATTATGTTGTCCATAGAGGGAAAAATGAGCAAAGACAGATGGCTTAACTCTGGTGTGT
GACTAAGATATAGGAAATTTATAGAGGAGGTTCTATCAATGTGCCGACTTACTTTGTGTT
TTATGTTCTGAGAACGATTACCAGCCATCTCAAATTCTGTGGTTGTCAAAGCTCCCCTGG
GGTTGTTGCTGGTTGGCCCCCACTTGCTTTGAGACTTTGATGCCAGGGCAGGTTGAGAGG
AACTGACTTCAGCTGAGTTTGATCTTGGATCTGGGAAAGAGAAATGCTTTGAAAATCACG
GCAACTCTGGGAAGTTTAAAAGATATTAATGTATCCTGGAGAGTTTGAGGCTTTGCAGAA
ACTTATTGGCAGAGCAGAATGATTCTGAAAAATGCTACATCAGTGAGGGGATATTTGATA
AGGTATTTTCTGCCAACTCGGGTATTCACTTAGCATTGTTTATCCTTTAAGATATGTATA
CACATACTTCTCTGTGAGTTTACCCTACTAACAAAGTTTTATCCCAGCCTCAACCTTG
CTTTGGGTCTCCAGGCCCAAGTTTCTCACCATCTCTTGGATGATTGCTCCAGCCCACTCT
GCTGCCACCTGGGATCCAACATGTTCAAACCCAGCTGTGAACTTCACAGAGTATTAAAAG
AAAGAGCCTTTGCTTCAGCAGTTTATGTTATTAAGACGGAGGCTTGGGTGATGTTATCTC
TCTCCACCAATGTGTAAGGTGAAAGTCCTATTAGGTAAGAGTTTTTGGAAAGACCCGTGTT
TTGTGCTTTTTTGGGTTTCAGTATAGGGTTTTTTTCTACAGGGCTAGAGGGAAAGTACCCC
AGCATTTCCAACCACTGGGGTGCAAATTTATTTGGGTCTACAGCTTTACCTATTCCTTTC
AAGAACATTTTTGAAAAAACACATCTGTTAAGTTGAACCATGTGTAAGTCTGAATGCTG
ATGTTTGGCCGTTTTTCTACTTAAAAAATAGGCCAGCAGTTTGTAATTTCAAGCTAATAT
ATGAACTTTTTGAAAAAGTTGTTCTTGGACACTAAAAGGTAAGACGGACGCCAGATTTCC
AGAGCAAGGGGAGGAGAGACCCGAGCAACATCACTTCCCTGAAGACCTAGCTCCTGCGCG
CGGCCGGGGAAGTGTGACTCCACATGCCGGCGTTACTTACCCGGGCCCCGCGCTGACTCGC
CACACCTCATTTTGCAGGCCGCGTAAAGCGCGGATGCGCGGCGTGGCCACGCCCTTCAG
TGCTTGTGACGCAGGCGCCCTGGGCTTTTTGGGCGCGAAAAAGAAGCAGTCTGGGTTGT
ACCCGGCGCAGCTGGGAGCGGCTGCTTCTCCGGGGTCTGATCTCCGCCCGGCATGGGGC
TGCTGGACCTTTGCGAGGAAGTGTTCGGCACCGCCGACCTTTACCGGGTGTGGGCGTGC
GACGCGAGGCCTCCGACGGCGAGGTCCGACGAGGCTACCACAAGGTGTCCCTGCAGGTAC
ACCCGGACCGGGTGGGTGAGGGCGACAAGGAGGACGCCACCCGCGCTTCCAGATCCTGG
GAAAAGTCTATTCCGTTCTCAGTGACAGAGAACAGAGAGCAGTGTACGATGAGCAGGGAA
CAGTGGACGAGGACTCTCCTGTGCTCACCCAAGACCGAGACTGGGAGGCGTATTGGCGGC
TACTCTTTAAAAGATATCTTTAGAGGACATTCAAGCTTTTGAAAAGACATACAAAGGTT
CGGAAGAAGAGCTGGCTGATATTAAGCAGGCCTATCTGGACTTCAAGGGTGACATGGATC
AGATCATGGAGTCTGTGCTTTGCGTGCACTACAGAGGAACCCAGGATAAGGAATATCA
TTCAGCAAGCTATTGACGCCGAGAGGTCCCATCCTATAATGCCTTTGTCAAAGAATCGA
AACAAAAGATGAATGCAAGGAAAAGGAGGGCTCAGGAAGAGGCCAAAAGAAGCAGAAATGA
GCAGAAAGGAGTTGGGGCTTGATGAAGGCGTGGATAGCCTGAAGGCAGCCATTGAGAGCA
GACAAAAGGATCGGCAAAAGGAAATGGACAATTTCTGGCTCAGATGGAAGCAAAGTACT
GCAAATCTTCAAAGGAGGAGGGAAAAAATCTGCTCTCAAGAAAGAAAAGAAATATGGA
ATTTTTCTCTTCAAAGGTCTTAGGTGTAAATTGATGCCATCGTAGGCAAGGTGCAGGCA

FIGURE 1 (CONT'D)

GGATTTGAAGGCCAAAAGTCAATTCAGCTCTTGAGAAAAGGTGTCTTCCAGCCTGAATTT
 TTCAGATTGACTAGACCAAGCAGAATCTCTCAACCTGATCTTAGTATTTCTAGAAAGCA
 CTTGACATTGTGTGAGGTCTCACCTGAAGGAACCTGGTGGTGACATTTGGGAGGGTGGAG
 GGAGGCAGTGTCTTCTGACAGCACTTGCCTCCATGGATCTTCTGTACACAGAACTCTT
 ATCTAGGATGTGGTTCTGTTCATGCTGCTTTCTGCGATGTGCGTGTCTGTTAGAATAGGC
 TCTCTACCCAGCTAGAACACCTTCCAGACACTTGCTGGACAGCTATCTTCCACATACTTC
 CCAGTTTACATTTGGTCTTAATGATCTTGAATAGATCCTCTCTTCATTTTACTCAGCCAG
 GTTTTGTACTGATGTACAGGTGTTAAATTACTTCAAGCATTTTTGTAAAGAGGTGTATATA
 ATTCAATAAAAAAGGTAAACATG

Gene 181. >ENST00000299418 cDNA sequence

GTTTTTCGGGCTTGTACCGCTTGGCGGTGCGGCCTGGTGTGCGCTTGACAGGTTCTTTCTGT
 GTTTGTCTCTGCCCTGCCAAGGCCGTAGAGCTGGTGCCTGCGGGTAGCGGGGCTCTCCG
 AGGAGCCGCACGCCGGCGGCACCATGGTCCACCTCACTGCTTTTCTACAGCTACTCTCCT
 CTGCAAGGCCTACCGTGGGGGCCACTTAACCATCCGCCTTGCCCTGGGTGGCTGCACCAA
 TCGGCCGTTTCTACCGCATTGTGGCTGCTCACAACAAGTGTCCAGGGATGGCCGTTTTCGT
 AGAGCAGCTGGGCTCCTATGATCCATTGCCCAACAGTCATGGAGAAAACTCGTTGCCCT
 CAACCTAGACAGGATCCGTCATTGGATTGGCTGCGGGGCCACCTCTCTAAGCCTATGGA
 AAAGCTTCTGGGTCTTGCTGGCTTTTTCCCTCTGCATCCTATGATGATCACAATGCTGA
 GAGACTGCGAAGGAAACGGGCACGTGAAGTCCTGTTAGCTTCTCAGAAAAAGATGCAGA
 AGCTACAGATACAGAGGCTACAGAAACATAAATGAGCTGACTTTAGTGAGCATAGCAGTG
 GGAACAAGGTCAAGGTCTTTTTGAAACACTGCAGCGATCTTAATTTTGTAGATTTGGAG
 TTCAATAAATGGAGTATCCTGAGTTGCCCTTGCTCTTCTGGCCTGGCCTGCACAGGGCCC
 AGGGAGAGATTTGTTCTTGTGTGACTTAGAGCTGGGTGTGGGTACTAATTAGCTTTTTTC
 GACTTTGTCTTGGGATAGACAGTGGCTATGGGAGGATTGGACTTTTGTAGTTGGGCTCTGG
 GTCTCTTGGACAACCTTTACAATTTACTGGCTTCCAAGACTTCCTGCTTCAAAACCCCCAG
 CCAGACTATTATGGGCCATTTCAGATCTTATGTTTCATCCCAAGTGCAAGAACAGTTA
 ACCTTTCTTAATTGATTTTTGTAAATTGGAGGTTTATATTGTCTTGCCTAATGCATATTCT
 CTTTTTTTTTTTTTTTTTTGAGACGGAGTCTTGTCTGTTGCCAGGCTGGAGTGCGGTGGT
 GCAATCTCAGCTCACTGCAATCTCCACCTCCTGGGTTCAAGAGGTTCTCCTGCCTCAGCC
 TCCTGAGTAGCCGGGGAGCTACAAGCATGCACCACCACACCCAGCTAATTTTTTTTTTTT
 TTTTGAGAGGAGTCTCGCTCTGTGCGCCAGGCTTGAGTGACGTGGCGCGATCTCGGCTCA
 CTGCAAGCTCTGTCTCCTGGGTTTCATGCCATTCTCCTGCTTCAGCCTCCCGAGTAGTCCC
 AGGAGTAGCTGGGACTACAGGTGCCCACCACACACCCAGCTAATTTTTTTGTATTTTTTA
 GTAGAGATGGGGTTTACCATGTTATCCAGGATGGTTTTGATCTCCTGACCTCGTGATCC
 GCCCGCCTTGGCCTCCCAAAGTGCTGGGATTATAGGCGTGAGCCACCGCCCGGGCAAAT
 TTTTGTATTTTGTAGTAGAGATGGGGTTTACCGTGTTGGCCAGGATGGTCTCAATCTGAC
 CTTGTGATCTGCCACCTCGGCCTCCCAAAGTGCTAGGATTACTGGCGTGAGCCACCACT
 CCTAGCCTTAATGCATATTCTTAAATATACAAAGGTAGATTTGTTATGAAAATTGCTTTG
 GGGCTCTAATAACCTACCTTTTAAAGATGAGAACTGCTGGGCTTAAGGGAGTTCAGTAT
 GAATCAAGATTGAACATTCAAATGTGGCTGTGATTTCTGCATATATCATAGATGGGATC
 CTTCTGAGAATACTGGAATAGGGAATTAGGACACCAAGCCAATTTCAGCTGTGAACCTTAT
 TCTTGTACTTTTCTTTCTTGCTGGTAATTTTATGGAGCAGGTTAAGAAGGCTGCTCTGTG
 TTAGGATAAACTGTATACCAATAATGTTGACAACCTGTAATGAGTGTTGCATTTTACTTC
 TTGTATCTTTTCTTCTACCTTGATGCCAGTAATCTATAAGGGATCTTTATAGTTTGAA
 TGTATTTGAATAACTTCAGTATACTTTAGTTCTACTTTTTTATTTGACTCACAACCATTC
 TTAGGTCTCAAGTATTTCCCATGTGTTTTAAAGCCTGAAGTCAGTGAGATGAAATTCAAC
 ATCAAGAATTTGAAGTAACTTGTAAGGAAAAATAATATAAAGATACCATTTGGGGCAGTGG
 CTCACACCTGTAATCTCAGCACTTTGGGAGGCTGAGGTGGAAGGATCACTTGAAGCCAGA
 GTTTGAGACCAGCCTGTGCAACACAGCAAGACCCGCTCTCTACAAAACTTAAAAAATTA
 GCTGGCTGTGGTGTGCTCACCCATAGTTCCAGCTACTCGGGAAGCTGAGGCAGTAAGAT
 CACTTGAGCCAGGAGGCCGATGCTGCAGTGAAGTGTGATTGTTCCACTACAGTCCAGCC
 TGGGTGACAGAGAAAAGAAAAAGAAAAACATTACATAATTTGGCTAGAGCATAATAATTTG
 ATTTTCTGGTTTTTTGAAAATTTGAGTTGCAATAAAAGGATATTTTCAGTGTGCG

Gene 182. >ENST00000263565 cDNA sequence

FIGURE 1 (CONT'D)

CAAGGTTTTCGGGGACTGAGTGGGTTTTCAGACTTTCTCTCAGGATTTCCGCTGGCTTCAGG
 TTCGGTCAGGCGTCGGGACAGAGCCTGATCAGGCTTCGGCGGCCGGTGGCAGCTCTCG
 ATCAGCTCTCGCAGTCGGAGAGGCGGCTAAGGAAAGGTGCCACAGCAGAGACGCGAAGGA
 GAGGCCCTAGAACCTTTTTCAAAGAAGAATGGAAGAAACCATGAAGCTTGCTACGATGGAA
 GACACAGTGGAGTACTGCCTGTTCTGATACCAGATGAGTCAAGGGACTCAGATAAACAT
 AAAGAGATTCTTCAGAAGTACATTGAGAGAATAATCACTCGGTTTGACCTATGCTGGTC
 CCCTACATCTGGCAGAATCAGCCTTTCAATCTTAAATATAAACCTGGGAAAGGAGGTGTT
 CCTGCTCATATGTTTGGCGTGACAAAGTTTGGGGATAACATTGAGGATGAATGGTTTATT
 GTTTATGTAATAAAGCAGATCACAAAGGAATTTCCAGAGTTAGTAGCAAGGATTGAAGAC
 AATGATGGTGAATTCTTGTTAATAGAAGCTGCTGACTTTCTCCCTAAATGGCTGGATCCT
 GAAAATAGCACCAATAGGGTATTTTTCTGCCATGGGGAATTGTGTATTATCCCTGCACCA
 AGAAAATCTGGAGCAGAATCTTGTTACCCACCACACCCCCAACAAATCCACAAGCATTG
 AATATAATCAGCAGCATTGAGAAAAATACTTGCTTCAGAATCTATACGAGCTGCTGTG
 AATAGGCGCATCAGAGGGTACCCAGAAAAAATTGAGGCTCACTTCATCGAGCACACTGC
 TTCCTTCAGCTGGCATTGTGGCAGTGCTAAAGCAGCGCCCCAGATTGGTGGCTGCAGCA
 GTCCAGGCATTTTACCTACGAGACCCTATTGACCTGCGAGCTTGTCTGTTTTCAAGACA
 TTCTTGCTGAAACACGAATAATGACATCGGTCAATTCACTAAATGTCTATATGCACAA
 TTGGTGCAACAAAGGTTTGTGCCAGACCGGCGGAGTGGATACAGGCTGCCTCCTCATCT
 GATCCCCAGTACCGAGCCCATGAATTGGGCATGAAATTGGCTCATGGATTTGAGATCTTA
 TGCTCCAAATGTAGCCACATTTTTCTGACTGCAAGAAATCCCTTGCTGCTGCCTCACCA
 CTCTGGGCCAGTTTCTTTGAAAGTCTGAAAAAGAATGATTACTTTAAGGGACTGATAGAA
 GGTTCTGCTCAGTACCGGGAAAGGCTAGAAATGGCAGAGAATTACTTCAGCTCTCAGTA
 GACTGGCCAGAAAGTTCTTTGCTATGAGCCCTGGTGAAGAAATCTTAACCTTATTACAG
 ACAATACCATTTGATATAGAAGACCTTAAGAAAGAAGCAGCTAATCTTCCCCCAGAGGAT
 GATGACCAGTGGTTAGATCTCTCACCAGATCAGCTGGACCAGCTGCTGCAGGAAGCTGTT
 GGCAAAAAAGAATCCGAGTCTGTTTCCAAGGAGGAGAAGGAGCAGAACTATGACTTAACT
 GAAGTCTCAGAGAGCATGAAAGCTTTTATATCCAAAGTCTCAACCCACAAGGGAGCAGAG
 CTGCCTCGAGAACCTTCTGAGGCTCCAATCACTTTTGTATGCAGATTCTTTTCTTAATTAT
 TTTGATAAGATTTTAGGGCCAAGGCCTAATGAGTCAGATTCTGATGATCTGGATGATGAA
 GACTTTGAATGTTTAGATAGTGATGATGACTTTGGAATTTGAAACACACGAACCTGGCGAA
 GAGGCTTCCCTGAAAGGAACACTTGATAATCTCAAGTCATACATGGCCCAGATGGACCAG
 GAACTAGCACACACCTGCATCAGCAAAAGTTTCACTACTAGGAACCAAGTGAACCTGTA
 TCCCAGACTACCGATAACAATTGAGATGAGGAAGATTCTGGTACGGGAGAATCTGTTATG
 GCACCAGTAGATGTAGACCTGAACCTGGTTTCAAATATATTGGAATCCTATAGCTCCCAA
 GCTGGACTGGCAGGACCTGCTTCCAATCTTTTACAAAGCATGGGAGTGCAGCTGCCTGAC
 AACACCGATCACAGACCAACAAGTAAGCCAACAAAAAATTAAACCAGCACATTTAGCTTCT
 CTTTTTTCTTTTTTAAATAAATATTGAATATGATTCTGTTC

Gene 183. >ENST00000287239 cDNA sequence

GACAACAACAGGGGGACACAAAATGGCGGCGGCTTAGCTCCTACCCCTGGCGGCGGCGGC
 AGCGGTGGCGGAGGCGACGGCACCTCCTCCAGGCGGCAGCCGAGTTTCTCAGGCAGCGG
 CAGCGCCCCCGGCAGGCGCGGTGGCGGTGGCGCGCAGCCAGATTGCTGCTGAAGACCTGGA
 TAATCTCCATTTTGTCTGACTGTTAAAACGTTTGAAGTTCCAATTCTGGTCTTGATT
 TCCCAGTTAAAGATGTTCTTCAACCGAATGCAGTCTTTCCTGTTGGTAAAATAAGACAAC
 CATCAACATTGCCTGTTTGTCTGCTTTTGAATCTCTTAAGGATGGATGTTTGTAAAGATGT
 TGCTTAATACAGTCTGGAATACTCTGTCCATTTGTGTAATTGTAAATGACTTTCAAATGT
 GCAAGTTCTGTAAATACAAAGAGAACCTCTATGGGTAACTTTTGTGTTGAAGAAGTCAT
 TTGTCAACCATGGTAAACTTGCAACCCACTTTATACAGAGTGGATTCTTGAAGCTATA
 CAGAAAATAAAAAAGCAAAAGCAAAGGCCCTCTGAAGAGAGAATCTGCCATGCGGTGAGT
 ACTTCCCATGGGTTGGATAAGAAGACAGTCTCTGAACAGCTGGAACTCAGTGTTGAGGAT
 GGCTCAGTTCTCAAAGTCAACAACAAAGGCCTTGCTCCTATAAGGACCCAGACAACCTT
 GGGCGCTTTTTCATCAGTTAAACAGGCACTTTTCTAAGTCAGCCAAGGGGTCTAGAGGA
 TCATGTAATGATCTCCGCAATGTGGATTGGAATAAATTTTAAAGGAGAGCAATTGAAGGA
 CTTGAGGAGCCGAATGGCTCCTCCCTGAAGAACATAGAGAAGTATCTCAGAAGTCAAAGT
 GATCTACAAGCACCAACAACCCAGCCTTTCAGCAGCGGCTGCGACTGGGGGCCAAA

FIGURE 1 (CONT'D)

CGCGCTGTGAATAATGGGAGGTTACTGAAAGACGGACCGCAGTACAGGGTCAATTATGGG
AGCTTAGATGGCAAAGGGGCACCTCAGTATCCAGTGCATTCCCATCCTCGCTCCACCT
GTCAGCCTTCTACCCCATGAGAAAGACCAGCCCGTGCTGATCCATTCCAATATGTAGC
TTCTGTTTGGGGACTAAAGAATCAAATCGTGAAAAGAAACCAGAAGAACTCCTCTCTTGT
GCAGATTGTGGCAGTAGTGGACCCCATCCTGTTTGAAATTTTGTCTGAATTAACAACA
AATGTAAAGGCCTTAAGGTGGCAGTGCATCGAATGCAAGACATGCAGTGCCTGTAGAGTC
CAAGGCAGAAATGCTGATAATATGCTTTTTTGTGATTCTGTGATAGAGGATTTTATATG
GAATGCTGTGACCACCACTTTCCAGAATGCCAAAAGGGATGTGGATTTGCCAAGTCTGC
AGACCAAAGAAAAAGGGAAGAAACTACTTCATGAGAAAGCTGCACAAATAAAACGACGA
TATGCAAAACCCATTGGACGACCGAAAAATAAATTAAAGCAACGATTGTTGTCTGTAACC
AGTGATGAAGGATCCATGAATGCATTACAGGAAGGGGGTCACTGGTAGGGGTCAAAG
ACTAAAGTCTGTACCAACCTTCATCTGGTCATGCTGCATCTGGGAAGGACTCAAGCAGC
AGATTGGCTGTTACAGACCCCACTCGGCCTGGTGCCACCACCAAAATCACCACCCTCC
ACCTACATTTCTGCCTCTACACTTAAAGTTAAACAAGAAAACCAAAGGGCTCATTGATGGC
CTTACTAAGTTTTTTTACACCATCACCTGATGGTTCGAGATCACGAGGTGAAATTATAGAC
TTTTCAAAGCACTATCGTC CAAGGAAAAAGGTCTCTCAGAAACAGTCATGCACCTTCTCAT
GTGTTGGCTACAGGTACCACAAAAAGCTAAAACTCCACCTTCTTCACTTCCACCCCA
ACCCCATCTCCGGTCAGAGCCCAGTTCAAAAAGTCCAGCACGGCCACTTCTTCTCCC
TCTCCCAGAGTTCTTCCAGCCAGTGCAGTGTGCCCTCCCTGAGCAGCCTTACCACTAAC
AGCCAGCTGAAGGCACTCTTTGATGGGCTTTCTCATATCTATACCACTCAGGGACAGTCT
CGCAAAAAGGGACACCCGAGTTATGCACCAACCAACGTATGCGTCGTAAACTGAATTA
TCTTCCACGGCAAAATCTAAAGCCCACTTCTTTGGCAAAAGAGATATTAGAAGTCGGTTT
ATTTCTCACTCCTCCTCCTCTAGCTGGGGGATGGCTAGAGGAAGTATTTTTAAAGCAATT
GCTCACTTCAAGCGAACAACTTTCTTAAAAAGCACAGGATGCTAGGCAGATTAAAATAT
AAAGTGACCCCTCAGATGGGGACCCCTCACAGGGAAGGGGAGCTTGACAGACGGAAGG
ATTAAACCTGATCAGGATGATGATACTGAAATAAAAAATAAACATCAAAACAAGAAAGTGCA
GATGTAAATGTGATTGGAAA CAAGGATGTGTTACTGAAGAGGATTTGGATGTTTTTAAG
CAGGCCCAGGAACCTTTCTTGGGAGAAAATAGAGTGTGAGAGTGGGGTGAAGACTGTGGC
CGGTACCTTTCTGTGATTGAATTTGGTAAATATGAAATCCAAACCTGGTACTCCTCGCCT
TACCCACAGGAATATGCAAGATTACCAAAGCTTTACCTGTGTGAATTCTGTCTTAAATAT
ATGAAAAGTAAAAATATTTTTGCTAAGACACTCCAAGAAGTGTGGATGGTTTCATCCTCCA
GCAAAATGAAATTTACCGAAGGAAAGACCTTTTCACTATTTGAGGTTGATGGGAATATGAGC
AAAATTTATTGCCAAAACCTTTGCTTGTGTAGCCAAGCTCTTCTGGACCACAAAACGTTG
TATTATGATGTGAGCCATTCTTTTTTATGTCTTACAAAAATGATGAAAAGGGCTGT
CATCTGGTTGGATACTTCTCTAAGGAAAAGCTTTGCCAGCAGAGTATAATGTCTCCTGC
ATAATGATCATGCCCAGCACCAAAGGCAAGGATTTGGACGGTTTCTCATTGATTTTCAGC
TATTTGCTTTCTAGAAGAGAAGGCCAAGCAGGGTCTCCTGAAAAGCCTCTCTCCGATCTG
GGCGTCTCTCCTACCTGGCATATTGGAAGAGCGTCATCTTGGAGTATCTCTACCACCAC
CATGAGAGGCACATCAGCATCAAGGCAATTAGCAGAGCGACGGGCATGTGCCACATGAC
ATTGCCACCACTCTGCAGCACCTCCACATGATCGACAAGAGAGATGGCAGATTTGTCTATC
ATTAGACGGGAAAAGTTGATATTGAGCCACATGGAAAAGCTGAAAACCTGTTCCAGAGCC
AATGAACCTTGATCCAGACAGTCTGAGGTGGACCCAATTTTAATTTCTAATGCTGCAGTG
TCTGAAGAAGAGCGAGAAGCTGAGAAAGAGGCTGAGCGGCTAATGGAACAAGCTAGCTGC
TGGGAGAAGGAGGAACAAGAAATCCTGTCAACTAGAGCTAACAGTAGGCAATCACTGCA
AAAGTACAATCGAAAAATAAATATTTGCATTCCCGGAGAGCCGGCCAGTCAAGGGGAG
CGAGGGCAGCTGCTGGAGCTGTCTAAAGAGAGCAGTGAAGAAGAAGAGGAGGAGGAGGAC
GAGGAGGAGGAAGAAGAGGAGGAAGAAGAGGAGGATGAAGAGGAGGAAGAAGAGGAA
GAAGAAGAAGAAGAAGAAGAAAAATTTCAAAGCTCTCCCCAAGATTGACGAAACCACAG
TCAGTTGCCATAAAGAGAAAGAGGCCTTTTGTACTAAAGAAAGAAAGGGGTGTAACGC
AGGAGGATCAACAGCAGTGTAACAACAGAGACCAATTCAGAGACGACAGAAAGTACTGAAT
GAGCCCTTTGACAACCTCAGATGAAGAGAGGCCAATGCCACAGCTGGAGCCTACCTGTGAG
ATTGAAGTGGAGGAAGATGGCAGGAAGCCAGTCTGAGAAAAGCATTCCAGCATCAGCCT
GGGAAGAAAAGACAAAACAGAGGAAGAGGAAGGAAAAGACAATCATTGCTTCAAGAATGCT
GACCCTTGTAGAAACAATATGAATGATGATTCAAGTAACCTTGAAAGAAGGCAGTAAAGAC

FIGURE 1 (CONT'D)

AATCCCGAACCTCTAAAGTGCAAACAAGTGTGGCCAAAAGGAACAAAGCGCGGTCTATCT
AAGTGGAGGCAAAACAAAGAGAGGAAGACCGGATTTAAACTGAATTTGTACACCCCGCCA
GAAACACCCATGGAGCCTGACGAGCAGGTAAACAGTGGGAAGAACAGAAGGAGACTTCAGAA
GGAAAAACAGCCCCAGTCCCATCAGGATTGAGGAGGAGGTCAAGGAAACTGGGGAAGCC
CTGTTGCCTCAAGAGGAAAAAGGAAGGAAGAAACATGTGCCCCTGTAAGTCCAAACACA
TCACCAGGTGAAAAACAGAAGATGATCTCATCAACCTGAGGAAGAGGAAGAGGAGGAG
GAGGAGGAAGAGGAAGAAGAGGAAGAAGAGGAAGGGGAAGAAGAAGAGGAGGAGAAAT
GTAGAAAAAGATCCAGATGGTGCTAAAAGCCAAGAAAAAGAGGAACAGAAATCTCCACG
GAAAAAGAAGACTCTGCACGTTTGGATGATCAAGAAGAGGAGGAGGAAGAGGATGAAGAG
CCATCCCAACAAGAGGACCATGATGCCGATGACGAGGATGACAGCCACATGGAGTCTGCC
GAAGTGGAGAAGGAAGAGCTGCCAGAGAAAGCTTCAAAGAAGTACTGGAAAAACAGGAG
ACTTTTTTTAGACCTTAATGTGCAGCCTGGTCACTCGAACCCAGAGGTCTTAATGGACTGT
GGCGTCGACCTGACAGCTTCTTGTAACAGTGAGCCCAAGGAGCTTGCTGGGGACCCTGAA
GCTGTACCCGAATCTGACGAGGAGCCACCCCAAGGAGAACAGGCACAGAAGCAGGACCAA
AAGAACAGCAAGGAAGTCGATACAGAGTTCAAAGAGGGAAACCCAGCAACCATGGAAATC
GACTCTGAGACTGTCCAGGCCGTTCACTCTTTGACCCAGGAGAGCAGCGAACAGGACGAC
ACCTTTTCAAGATTGTGCCGAGACTCAAGAGGCCTGTAGAAGCCTACAGAACTACACCCGT
GCAGACCAAAGTCCACAGATTGCCACCACGCTCGACGATTGCCAACAGTCGGACCACAGT
AGCCCAGTTTTCATCCGTCCACTCCCATCCTGGCCAGTCCGTACGTTCTGTCAACAGCCCA
AGTGTCCCTGCTCTGGAAAAAGCTACGCCCAAATCAGCCAGATCAAAGTGCCATCTCA
GTGCCATCTCTGCAGAACATGGAAACAGTCCCATGATGGATGTCCATCAGTTTTAGAT
CATTACAGCAAGTCGTAGACAGTGGATTTAGTGACCTGGGCAGTATCGAGAGCACAAC
GAGAACTACGAAAACCCAAGCAGCTACGATTCTACTATGGGAGGCAGCATCTGTGGAAAC
GGCTCTTTCACAGAACAGCTGCTCCTATAGCAACCTCACCTCCAGCAGTCTGACACAGAGC
AGCTGTGCTGTACCCAGCAGATGTCCAACATCAGCGGGAGCTGCAGCATGCTGCAGCAA
ACCAGCATCAGCTCCCCTCCGACCTGCAGCGTCAAGTCTCCTCAAGGCTGTGTGGTGGAG
AGGCCTCCGAGCAGCAGCCAGCAGCTGGCTCAGTGCAGCATGGCTGCTAACTTACCCCA
CCCATGCAGCTGGCTGAAATCCCCGAGACGAGCAACGCCAACATTGGCTTATACGAGCGA
ATGGGTCAGAGTGATTTTGGGGCTGGGCATTACCCGAGCCGTCAGCCACCTTCAGCCTT
GCCAACTGCAGCAGTTAACTAATACTATTATTGATCATTATTGCCTTACAGCCATTCC
GCTGCTGTGACTTCTATGCAACAGTGCCTCTTTGTCCACACCATTAAGTAACACAGGG
CTTGTTCAACTTTCTCAGTCTCCACACTCCGTCCCTGGGGGACCCCAAGCACAAGCTACC
ATGACCCCCACCCCCAACCTGACTCCTCCTCCAATGAATCTGCCGCCGCTCTTTTGCAA
CGGAACATGGCTGCATCAAATATTGGCATCTCTCACAGCCAAAGACTGCAAAACCCAGATT
GCCAGCAAGGGCCACATCTCCATGAGAACCAAGTCAGCGTCTCTGTCAACAGCCGCTGCC
ACCCATCAGTCAAAATCTATGGGCGCTCCCAGACTGTAGCCATGCAGGGTCTTGACGG
ACTTTAACGATGCAAGAGGCATGAACATGAGTGTGAACCTGATGCCAGCGCCAGCCTAC
AATGTCAACTCTGTGAACATGAACATGAACACTCTCAACGCCATGAATGGGTACAGCATG
TCCCAGCCAATGATGAACAGTGGCTACACAGCAATCATGGCTATATGAATCAAACGCCC
CAATACCTTATGCAGATGCAGATGGGCATGATGGGCACCCAGCCATATGCCAGCAGCCA
ATGCAGACCCACCCACGGTAACATGATGTACACGGCCCCCGGACATCACGGCTACATG
AACACAGGCATGTCCAAACAGTCTCTCAATGGCTCCTACATGAGAAGGTAGACAACGTGG
GCAGTCCACAAAACCTACGGGGCATCACTATTGGATTGATCTGCACAAATACCTTTGAAG
AGTACGATTTCAAAACAGCAATTGGTGTGAATGCAAAAACATTTGTTGGCACCATTTAT
TTAAAAAAGCTGTATGCAGCAGAAAGCCTTATACAAAGTTGTTTTTCTTTTTTTT
CCTTTTTCTTTTTTTTGGTACCTTCATTTCTGTTACTTTTATATAAAATTCTCTGCAAAG
GAAGGCCTCTCTTTGGACTACAATTTGGAGGCAGCCACTTGTTGTGCCTGCTTCTGTAA
ACAATGTGGATATCAAGCCCCCACAATTATCTGTTTAAATATTGAACCTAGAGCTTTTT
TTTTCCCTTCCCTGTCCACTCCATGTAAATGCCTTTAGCATTTTCAATTATTGTATATTTT
GTTTAAAGGTGACACTTCAGCATGCCGCTAATGTCTTTGTAGTGACAGTGCATTTTGTAG
TACTGTACAAGTGTTGTGCTAACAGTAAGCCATTTCTTAAGTTTTTTTGCTTGATTAGGG
TGCCCTAATTTGAGGGTTTTAAAAAACTATATTTTGTGTTAATTATAAACTGTAAAGA
GCTATAAAAGCTATTCCCATTTGGTTAGTCAAAAGGGTTTTATTGCTAAATGTTTGGTGT
AAAGTTGAGACCCTTTTCCATTTTGGTGACAGATTTCTTTGGGAAAAAAGGCAGCTTTT

FIGURE 1 (CONT'D)

TGTTTTATAAATGCAGACTTCTGTTTATTGAATGAAGCATATCTCAGTGTTTATCTGTCA
GGTTTTGAAACATTTTCATATATGTCCAAATACTTGGCAGGATTTAAAAAAAATAGTGAA
TTTGGTGTAAGTTGCTATTTTATGGAAATGCCTCTAACTTTACATTTTCATTCCATCTG
TAGATTTTTCTATCTTTATAAAATATTGGAGTTATTTTTTAAGGAAAAATAGAAAAGTAG
CTTGTAATAGCTCAAACCTAAGCTTACAAATCGCATGTAAAAAAGCAAAAAAGTTATTTG
TGTCTGTTTATATTGCTTCCTTTTTTGTAGCCTTTGTACCTGTACAGGGTGACAGTAAGG
GCCAAGCAGGAGAGGGCGTAATCCTTGTATAAAATAGGATCCAGCGACACTCTTGATTTTA
TCTGTTCTCTTTTTAGTCAGTCACTTCAAAAAACAAAAACAAACAAAAAAGCTGTA
CATTTTAACATAAAATAAATTATGATGAGCCATTTTTAGCCTCTTGTTGTCCTGTATATT
ATGATTGATAGAGAATGACCAATGGAAGTGTATCATGTGTACGCCTCAGAACACATACA
CATTTTGGGAAAATAAATTATTTAGTGTAAATTGGAGTTATGGGATTTTCTGATTTGTTT
TGACTTTGGGGGAGGGGTTGGCAATAAATAAGAGTAATATCTAATAAAACCATCACATAT
ACCAAATACCTATTTAATAAATAAATTTATAATGGATTTTAATGCTTTTCATGAAAGTTT
ATTTTATGCGAGTGCATACCTTCTGTATGCCAATCATTGCTTTTAAATAAAGTGAAATT
GTTTTTT

Gene 184. >ENST00000326248 cDNA sequence

GGGGTCGGTGCTGGCCGAGGGGGCGCCGGCTGCCGAGTGACATGGCGGCCGGCCCAT
TAGGGTGGTGTTGGTCCTTCTAGGGGTGCTCAGTGTCTGTGCAGCCAGCGCCATGGGTC
CGTAGCGGAGAGGGAGGCCGGCGGGGAGGCGGAGTGGGCGGAACCGTGGGATGGCGCGGT
TTTCCGGCCGCCCTCGGCGCTGGGCGCAGTGGGGGTGACGCGCAGCTCTGGGACGCCGCG
GCCAGGGAGGGAGGAGGCCGGGGGACTTGCCGGTACTGCTGTGGTGGAGCCAGGGCTATT
CCCCCACTTCCCGGGAGACTCGGAGCGCATCGAGTGTGCGCGCGCGCTGCTCTTCTACGGCACAGA
CTTCCGCGCGTGGCCGCCCGCTGCCGCGCCTGGCGCACCAGAGCTGGGCGCTCCTCCA
CGAGGAGTCGCCCTCAACAACCTTCTTGCTGAGCCACGGCCCGGGCATCCGCCTCTTCAA
TCTTACCTCCACCTTCAGTCGCCACTCGGATTACCCGCTGTGCTGCAGTGGCTGCCCGG
GACCGCCTATCTGCGCCGCCCGGTGCCTCCGCCCATGGAACGCGCGGAGTGGCGCCCGG
CGGCTACGCGCCGCTGCTCTATCTGCAGTCACACTGCGACGTGCCAGCGGACCGGGACCG
CTACGTGCGCGAGCTCATGCGCCACATCCCGGTAGACTCCTACGGGAAATGCCTGCAGAA
TCGGGAGCTGCCTACCGCGCGGCTACAGGACACAGCCACGGCCACCACCGAGGATCCAGA
GCTCTTGGCTTTCTTGTCCCGCTATAAGTTCCACTTGGCCCTGGAAAATGCCATCTGTAA
CGACTACATGACAGAAAACTGTGGCGTCCCATGCACCTGGGCGCTGTGCCCGTGTACCG
CGGTTCTCCCTCTGTGAGGGACTGGATGCCGAACAATCACTCCGTATCCTGATTGATGA
TTTTGAGTCTCCTCAGAAGCTGGCAGAGTTTATTGACTTTCTGGACAAGAATGATGAGGA
GTATATGAAATACCTGGCATAACAAGCAACCTGGGGGCATCACCAACCAATTTCTTCTGGA
TAGTCTGAAGCATCGGGAGTGGGGAGTGAATGATCCTTTGCTGCCTAACTACCTCAACGG
CTTCGAGTGTTCGTCTGTGACTACGAACTGGCTCGGCTGGATGCCGAGAAAGCCACGC
GGCCTCTCCCGGGGACAGCCCCGTCTTTGAGCCCCACATTGCCAGCCCTCACACATGGA
CTGCCAGTGCCACACCTGGCTTTGGCAATGTGGAAGAGATTCTGAGAATGACAGTTG
GAAAGAGATGTGGCTGCAAGATTATTGGCAAGGTCTGGACCAGGGGGAAGCTCTCACTGC
CATGATCCACAACAATGAAAACAGAGCAGACGAAATTTTGGGATTACCTACATGAAATCTT
CATGAAGAGGCAACATCTCTAAGTGCCCTTGCAAGAGCCTTTAACTTGGCGGAGCTAAGG
AGATCTTATTCTACCATGGGACATAAGGAGCATCCACTGCACAAACCTTAATGAACACT
GTCTTTTCATGGATTCAAGGAATTCAGTTTATCTATTAAAGATTTTATCTTAATGATGA
GTAGCCAAGGTCTAACATAGGGCCTCTCCTCAAGGAGAGATGGAGGGATACAATTCTTGG
TTCAGTGGGAAACAGAAACCTAAACATCCATTTGATTCAAGGTGCTGGTCCAACAGAGT
TTTTAACTACTCACTTCTTTATTTTCATCCTTTGACTGTACTTGATTACCAGTGAAGTA
AGATGGGTGAGTTACGACTTACAACTTTTGTCTATTCCCCAGACTCCTCATTATTTCAG
TACATTTCCCAATAATCTCTTTTCTCATCTCTTGCTTTATAAATTGTTACGTTGGTGGA
GAAGCAAAACATTTGGTGAGTTGTATTCTGGTTTTCCGGAGTTGGATTTTTTTATATTAT
ATACTTTTCATGTC

Gene 185. >ENST00000299593 cDNA sequence

CTGCAGATAGAGCAGCGGCGGTAGCCGCGGGCGCCACTCCGCGCGTTCATGGGCGG
AGGCACCGGGCGGCGCAGATAGGCGGTCCCGGGCAGCCACTGCAGCGACAGCGGGTAATC

FIGURE 1 (CONT'D)

CGAGTGGCGACTGAAGGTGGAGGTAAGATTGAAGAGGCGGATGCCCCGGCCGTGGCTCAG
CAAGAAGTTGTTGAGGGGCGACTCCTCGTGGAGGAGCGCCAGCTCTGGTGCAGGCG
CGGCAGCGGGGCGGCCGACGCGCGGAAGTCTGTGCCGTAGAAGAGCAGCGCGCGCTCCG
CGAGTCCCTCAGCGCTCGGCGGTTCCGGGACGCCACGCACGCGCCGCGCGCACACTCGAT
GCGCTCCGAGTCTCCCGGAAGTGGGGGAATAG

Gene 186. >ENST00000310381 cDNA sequence

ATGGGGAACATACTGACCTGTTGTGTGCACCCCTAGCGTCAGCCTCGAGTTTGACCAGCAA
CAGGGGTGGTGTGTCCCTCTGAATCTGAGATCTATGAGGCAGGAGCTGGGGACAGGATG
GCAGGAGCGCCCATGGCTGCTGCTGTGCAGCCTGCTGAGGTGACCGTTGAAGTTGGTGAG
GACCTCCACATGCACCAATTTCGTGACCAGGAGATGCTGAAGCTTTGGAGTTTAACCTT
TCTGCCAATCCAGAGGCAAGCACAATATTCCAGAGGAACTCTCAAAAGATGTTGTAGAA
ATAAGAAGAAGCAACTGTACAAACCATGTATCTACTGAGCGTTTCAGTCAACAATACAGC
TCGTGTTTGCACAATATTCTTGATGACAGCACAGCCAGCCAGCATTATCTTACAATGACA
ATAATATCTGTGACCTTGGAGATACCTCATCATATCACACAAAGAGATGCAGATAGATCT
TTGAGCATACCTGATGAACAGTTACACTCATTTGCGGTTTCCACCGTGACATTACGAAG
AACAGAAATGGAGGTGGGAGTTTAAATAACTATTCTCTCCATTCCATCGACTCCCAGC
ACCAGCCAGGAGGACCCTCAGTTTCAGTGTTCTCTCCACTGCCAACACACCCACCCCGTT
TGCAAGCGGTCCATGCGCTGGTCCAACCTGTTTACATCTGAGAAAGGGAGTCACCCAGAC
AAAGAGAGGAAAGCCCCGGAGAATCATGCTGACACCATCGGGAGCGGCAGAGCCATCCCC
ATTAAACAGGGCATGCTCTTAAAGCGAAGTGGGAAATGGCTGAAGACATGGAAAAAGAAA
TACGTACCCCTGTGTTCCAATGGCGTGCTCACCTATTATTCAAGCTTAGGTGATTATATG
AAGAATATTATAAAAAAGAGATTGACCTTCGGACATCTACCATCAAAGTCCCAGGAAAG
TGGCCATCCCTAGCCACATCGGCCTGTGCACCCATCTCCAGCTCTAAAAGCAATGGCCTA
TCCAAGGACATGGACACCGGGCTGGGTGACTCCATATGCTTCAGCCCCAGTATCTCCAGC
ACCACCAGCCCCAAGCTCAACCCGCCCCCTCTCCTCATGCCAATAAAAAGAAACACCTA
AAGAAGAAAAGCACCAACAACCTTTATGATTGTGTCTGCCACTGGCCAAACATGGCACTTT
GAAGCCACGACGTATGAGGAGCGGGATGCCTGGGTCCAAGCCATCCAGAGCCAGATCCTG
GCCAGCCTGCAGTCATGCGAGAGCAGTAAAAGCAAGTCCCAGCTGACCAGCCAGAGCGAG
GCCATGGCCCTGCAGTCGATCCAAAACATGCGTGGGAACGCCCACTGTGTGGACTATGAG
ACCCAGAATCCTAAGTGGGCCAGTTTGAACCTTGGGAGTCCTCATGTGTATTGAATGCTCA
GGAATCCACCGCAGTCTTGGCACCCGCCTTTCCCGTGTGCGATCTCTGGAGCTGGATGAC
TGGCCAGTTGAGCTCAGGAAGGTTATGTCTATTGGCAATGACCTAGCCAACAGCATC
TGGGAAGGGAGCAGCCAGGGGCGAGACAAACCTCAGTAAAGTCCACGAGGGAAGAGAAG
GAACGGTGGATCCGTTCCAAATATGAGGAGAAGCTCTTTCTGGCCCCACTACCTGCACT
GAGCTGTCCCTGGGCCAGCACCTGCTGCGGGCCACCGCTGATGAGGACCTGCAGACAGCC
ATCCTGCTGCTGGCACATGGCTCCCGTGAGGAGGTGAACGAGACCTGTGGGGAGGGAGAC
GGCTGCACGGCGCTCCATCTGGCCTGCCGCAAGGGGAATGTGGTCTTGGCACAGCTCCTG
ATCTGGTACGGGGTGGACGTATGGCCCGAGATGCCACGGGAACACAGCGCTGACCTAC
GCCCGGCAGGCCTCCAGCCAGGAGTGCATCAACGTGCTTCTGCAGTACGGCTGCCCCGAC
GAGTGCGTGTAG

Gene 187. >ENST00000333366 cDNA sequence

CTGGTCATCTACAGCCGCTCCTTCCTGGAGTACAACAGCTGGCATGTGCTCAGCTCCGTC
AACATCTGCTGCTCCAAGCTGGTGAAGTGCCGGCTGCAGAAGGGCAAGGTGACCATTGCA
GAGTTCATCTGGCTGGCCACACGCAGCCAAATGGAGGCCACTGAGCCACAGGATATGGTG
GTCTATGACCAGAGCACACGGGACGCCAGTGTGCTGGCCGAGACCGCTTCCTCTCCATC
CTGCTGAGCAAGCTGGACAGCTGCTTCGACAGCGTGGCCATCCTCACGGGGGGCTTCGCC
ACCTTCTCCTCCTGCTTCCCCAGCCTCTGCCAGGGCAAGCCTGCTGCCCTGCTACCCATG
AGCCTCTCCCAGCCCTGCCTGCCCGTGCTAGCGTGAGCCTGACCTCATCTGCTCAC
CTCTACCTGGGCTCGCAGAAAGACGTTCTGAACAAGGATCTGACGACACAGAATGGAATA
AGCTACGTCTCAATGCCAGCAACTCCTGCCCCAAGCCTGACTTCATCTGCGAGAGCCGC
TTCATGCGGGTCCCCATCAACGACAACACTACTGTGAAAAGCTGCTGCCCTGGCTGGACAAG
TCTATGGAGTTCATCTGTAAAGGCAAGCTGTCCAGCTGCCAAGTCATCGTCCACTGTCTG
GTCGGTATCTCCCACTCTGCCACCATCGCCATCGCCTACATCATGAAGACCATGGGCATA
TCCTCCGACGACACCTACAGGTTTCATGAAGGATAGGCGCCAGTCCATCTCGCCCAACTTC

FIGURE 1 (CONT'D)

AACTTCCTGGGCCAGCTGCTGGAATCAAGCGCTGCAGCTGCCAGATGGAGTTCGAGGAGG
GCATCCTGGAGGGGCGCACTCGCGGCGAGGAGCTGGCCGCCATGGGCAAGCAGGCGAGCT
TCTCGGGCAGCGTGGAGGTCATCGAGATGTCCTGACCCCTCCGCTGCCCTT

Gene 188. >ENST00000332341 cDNA sequence

CTGGTCATCTACAGCCGCTCCTTCCTGGAGTACAACAGCTGGCATGTGCTCAGCTCCGTC
AACATCTGCTGCTCCAAGCTGGTGAAGTGCCGGCTGCAGAAGGGCAAGGTGACCATTGCA
GAGTTCATCTGGCTGGCCACACGCAGCCAAATGGAGGCCACTGAGCCACAGGATATGGTG
GTCTATGACCAGAGCACACGGGACGCCAGTGTGCTGGCCGAGACCGCTTCTCTCCATC
CTGCTGAGCAAGCTGGACAGCTGCTTCGACAGCAAAGACGTTCTGAAACAAGGATCTGACG
ACACAGAATGGAATAAGCTACGTCCTCAATGCCAGCAACTCCTGCCCCAAGCCTGACTTC
ATCTGCGAGAGCCGCTTCATGCGGGTCCCCATCAACGACAACCTACTGTGAAAAGCTGCTG
CCCTGGCTGGACAAGTCTATGGAGTTCATCTGTAAAGGCAAGCTGTCCAGCTGCCAAGTC
ATCGTCCACTGTCTGGTCGGTATCTCCCACTCTGCCACCATCGCCATCGCCTACATCATG
AAGACCATGGGCATATCCTCCGACGACACCTACAGGTTTCATGAAGGATAGGCGCCAGTCC
ATCTCGCCCAACTTCAACTTCCTGGGCCAGCTGCTGGAATCAAGCGCTGCAGCTGCCAGA
TGGAGTTCGAGGAGGGCATCCTGGAGGGGCGCACTCGCGGCGAGGAGCTGGCCGCCATGG
GCAAGCAGGCGAGCTTCTCGGGCAGCGTGGAGGTCATCGAGATGTCCTGACCCCTCCGCT
GCCCTT

Gene 189. >ENST00000326185 cDNA sequence

ATGGAGCTGATGTTTGAGAGTGGGAGGACGGAGAGCGCTTCTCATTTCAGGATTTCGGAC
CGTTTTTGAGGAGGATTCACTCTGTTTCCTTCATCTCCGAGGCCGAGAGCCTCTGCCAGAAC
TGGCGGGGATGGCGCAAACAGTCAGCGGGGCCCAATTCCCCCACTGGCGGCGGTGGCGGA
GGTGGCAGTGGCGGTACCAGAATGCGAGGTGAGAGTGAGCTGGGGGGAAGAGGAGCGGCA
GGCCCTGCTTGGGCCTCGCTCGGGAGCTGTCCGGGACCAGGAGCTGTCCCGACCAAGAG
CTCTCTTCAACCAGGGGAAGAAAGGGGAGCTGTCCCGGCCGGGAGCTGTCCCGACTGG
GAGCTGTCCCAAGCTTAG

Gene 190. >ENST00000310182 cDNA sequence

ACCGCAAAGCCTGCCGGGAGCTTGGTGCGCTATGGCGACACCCAGCCTGCGGGGTGCTCT
GGCGCGGTTTTGGGAACCCGCGGAAGCCTGTGCTGAAGCCCAATAAACCTCTCATTCTAGC
TAACCGCGTCGGGGAGCGGCGCCGGGAGAAGGGCGAGGCGACTTGTCATCAGGAGATGTC
GGTGATGATGGCTTGCTGGAAGCAGAATGAATTTCGCGACGATGCGTGCAGAAAAGAGAT
CCAGGGCTTCTCGATTGTGCCGCGAGGGCTCAGGAAGCCCGAAAGATGAGATCAATACA
GGAAACCTGGGAGAGTCTGGGAGTTTACTTCCAAATAAATTGAATAAGTTGTTACAGAG
GTTTCCTAACAAACCTTACCTCAGCTGA

Gene 191. >ENST00000309979 cDNA sequence

GGGCGGGGCGCGGAGCCCGCCGTCTCGGAGGCCGCGGCTCGGCCCGGCACTGCGGAGGGC
CGCTTGATTTCCCGGAACCCAGGTCGCGCGGCTGCTAGGGCCGGAGCCGGTGGATCCGAG
CGGGTGCCACCAGCGGCGGCGCGCCCGCTCCCCCGGTGGGAGCGGTGGTTGGGCCAGGCT
GCGGCAGAGCGTTGCTCGGAGATGGCGGAGCAGCCGCGACGCGGCCCGTGGCCCCGAAA
GCAGGGAAGCCGGGCGAGCCCGGGACGCGGCGGAGCCCGGGGACAGCGGGGACGCCGCC
AGTCCTCCGGGTATGAAGCTAAAATGCAGCGGCTAA

Gene 192. >ENST00000313749 cDNA sequence

GGAGCCTGGGAGCCTTGACGTTAGGAACGAAGTCTAACCTGGATCTGGAGCCGGGTGAGA
TCAAATTGGGAATGCTTTTATAATGAACGTCAACCAGTCAGTTCCACCTGTGCCACCATT
TGGGCAGCCCCAGCCCATCTACCCAGGGTATCATCAGTCCAGCTATGGTGGGCAATCAGG
GTCCACAGCCCCCGCCATTCCCTATGGAGCCTACAATGGCCCAGTACCAGGCTATCAGCA
AACACCTCCCCAAGGTATGTCAAGAGCCCCACCTTCCTCGGGGGCACCTCCAGCCTCAAC
AGCACAGGCTCCTTGTGGCCAGGCTGCATATGGCCAGTTTGGCCAAGGAGATGTACAGAA
TGGGCCAAGCTCCACTGTTTCAGATGCAAAGGCTGCCTGGGTCTCAGCCATTTGGGTCCCC
ATTGGCCCCCTGTGGGCAACACAGCCACCTGTGCTTCAGCCCTATGGCCCTCCCCCGACAAG
TGCACAGGTGGCTACGCAGCTGTCTGGAATGCAGATCAGCGGTGCTGTGGCCCCAGCCCC
TCCTTCTTCAGGGCTGGGCTTTGGCCCCACCAACATCGCTGGCTTCAGCCTCAGGAAGTTT
CCCTAACTCTGGTCTGTATGGCTCCTATCCTCAGGGCCAGGCTCCTCCCTTAGCCAGGC
CCAAGGTCATCCTGGGATCCAGACTCCCCAGCGATCTGCCCCATCACAGGCCTCCAGCTT

FIGURE 1 (CONT'D)

CACACCCCCAGCTTCAGGGGGTCTCGGCTGCCTTCGATGACTGGTCCACTCCTGCCTGG
ACAGAGTTTTGGAGGGCCCTCAGTGAGCCAGCCCAACCATGTGTCTTCACCTCCTCAAGC
TCTGCCCCCTGGCACCAGATGACTGGGCCCCTGGGACCACTGCCACCTATGCACTCCCC
GCAGCAGCCAGGCTATCAGCCCCAACAAAATGGTTCTTCGGACCAGCCCGGGGCCCTCA
GTCTAATTATGGAGGGCCCTACCCAGCAGCAACCACTTTGGCAGTCAGCCTGGGCCTCC
TCAGCCACTGCCTCCTAAGCGCCTGGACCCTGATGCCATCCCAAGCCCTATTAGGTAT
TGAAGATGACAGGAACAACCGGGGTACAGAGCCATTTGTTACTGGAGTACGGGGCCAGGT
GCCACCCTTAGTCACTACCAACTTCCTGGTGAAAGACCAAGGGAATGCAAGTCCCCGATA
CATCCGATGTACATCCTATAATATCCCTTGACATCTGACATGGCTAAGCAGGCTCAGGT
GCCCCCTGGCAGCAGTCATCAAACCGCTGGCAAGGCTGCCCCAGAGGAGGCTTCAACGTA
TGTTGTGGACCATGGGGAATCTGGCCCTTTGCGCTGCAACCGCTGCAAAGCATACATGTG
TCCCTTCATGCAGTTTCATTGAAGGAGGGAGGCGTTTCCAGTGCTGTTTTTGCAGCTGTAT
CAATGATGTTCCCCCCAGTATTTTTCAGCACCTGGATCATACCGGCAAACGTGTGGATGC
TTATGACCGCCCTGAGCTATCCCTGGGCTCTTATGAATTCTTGGCCACTGTAGATTACTG
CAAGAACAATAAGTTCCCCAGCCCTCCTGCCTTTATCTTCATGATTGACGTCTCCTACAA
TGCCATCAGGACTGGTCTTGTTAGGCTCCTCTGTGAGGAGCTCAAGTCACTGTTAGACTT
TCTACCTAGGGAGGGTGGGGCAGAAGAGTCAGCAATCCGCGTTGGCTTTGTACCTACAA
TAAGGTGCTCCACTTCTATAATGTGAAGAGCTCATTGGCCAGCCAAGATGATGGTTGT
GTCTGATGTGGCTGACATGTTTGTGCCACTGCTGGATGGCTTCCTGGTCAACGTCAATGA
GTCTCGGGCAGTTATCACCAGCTTATTGGATCAGATTCCAGAAATGTTTGCAGACACAAG
GGAAACAGAGACAGTATTTGTACCAGTTATCCAGGCTGGAATGGAGGCTCTGAAGGCTGC
TGAGTGTGCAGGGAAGCTCTTTCTATTCCATACATCCCTGCCATTGCAGAGGCCCCAGG
GAAACTGAAGAACAGAGATGACAGGAAGCTGATCAATACAGACAAGGAGAAGACTCTGTT
CCAGCCTCAGACAGGTGCCTATCAGACCCTGGCCAAAGAGTGTGTGGCCCAAGGCTGCTG
TGATGATCTCTTTCTCTTCCCTAACAGTATGTGGATGTGGCCACACTCTCTGTTGTGCC
CCAGCTCACTGGTGGCTCTGTCTACAAATATGCTTCCTTTTCAGGTGGAGAACGACCAGGA
GCGGTTCTTGAGTGACCTGCGTCGTGATGTCCAGAAGGTTGTTGGCTTTGATGCTGTGAT
GCGGGTCCGGACAAGCACTGGTATCCGTGCTGTAGATTTCTTTGGAGCTTTCTACATGAG
CAACACGACAGATGTGGAGCTGGCTGGGCTAGATGGGGACAAAACAGTGACTGTGGAGTT
CAAGCATGACGATCGGCTCAATGAAGAGAGCGGAGCTCTCCTGCAGTGTGCCCTGCTTTA
CACCAGCTGTGCAGGGCAGCGTCGGCTCCGCATCCATAATCTGGCCCTGAACTGCTGCAC
CCAGCTGGCTGATCTATATCGAAACTGTGAGACTGACACGCTCATCAACTACATGGCCAA
GTTTGCATATCGGGGAGTCTCTGAATAGCCCTGTGAAGGCTGTTGCTGACACGCTCATCAC
CCAGTGTGCCAGATCCTGGCCTGTTACAGAAAGAACTGTGCTAGCCCCCTCCTCTGCAGG
ACAGTTGATCCTTCCTGAGTGACATGAAGCTACTCCCAGTTTACCTGAACTGTGTGTTGAA
GAGTGATGTCTGCAGCCTGGAGCTGAAGTCACTACTGATGACCGTGCTATGTCCGACA
GCTAGTTACCTCCATGGATGTGACTGAGACCAATGTCTTCTTCTACCTCGGCTCTTACC
TTTGACAAAGTCTCCCGTTGAGAGTACTACCGAACCACCAGCAGTTGAGCCTCTGAAGA
GCGTCTAAGCAATGGGGATATATATTTACTGGAGAATGGGCTCAACCTCTTCTCTGGGT
GGGAGCAAGCGTCCAACAGGGTGTGTCCAGAGCCTTTTCAGCGTCTCCTCCTTCAGTCA
GATCACCAAGTGGTTTGTGAGTGTCTGCCAGTTCTGGATAATCCACTGTCCAAGAAGGTTG
AGGCCTCATTGATAGCTTAGGCACAGAGATCCCGGTACATGAAGCTTACCGTGGTGAAAC
AGGAAGACAAGATGGAGATGCTGTTCAAGCACTTCCTGGTGGAAGACAAGAGTCTGAGTG
GGGGAGCATCTTATGTGGAATTTCTCTGTGATATGCACAAGGAGATTGGGCAGCTACTGA
GCTAAAGCAAGTGGGTAAATGGCATAGGGCCCAGGCTAGCTTCCAGAAAGCACCCCAGGA
TGTCAGAGAAATTGGGACAGTAACATATCTTATGTAA

Gene 193. >ENST00000309967 cDNA sequence

GGCACCCGCTCGGATCCACCGGCTCCGGCCCTAGCAGCCGCGACCTGGGTTCCGGGAA
ATCAAGCGGCCCTCCGAGTGCCGGGCCGAGCCGCGGCCTCCGAGACGGCGGGCTCCGCG
CCCCGCCCCGGAAGCGCACCCCTCCTCTCCGCGGATGGCACTGCCGGCCGAGCGTCCG
GGGACCACGACTTCGGAGCAGGGGCGGGCTCAGGCCTGGGCTCATCCACTCAGCCCCGCG
GAGGGGGAGCCGGGCCGGCCCACTCGGGGGAGGGGAGGAGTAAGAGGC

Gene 194. >ENST00000299641 cDNA sequence

AGGTAGAGGGGAAGAGATTGAACTTTGCTGACCTTTGATGTGAGGCGCTCAGCCAGGGCC

FIGURE 1 (CONT'D)

AAGGGGAGAGCCTGGCAAGATTTGCAGCCTGAAGCCATGGGCCAGGGGGCCATGGTGACC
 TGAGACAAGTGGACTCTGTATAGTTGCCCCCTGCTTCCCCCTTCTACCTCCCCTACCCTAT
 GCTAAGGGGACTCGTCTCCACCTCGTAAAGGAACTCCCCAAGGGAATCCCTGTCCCCTA
 TTTTCCTATCCTTCTACCTTCCAAGACAGTCCTAGCCTATAGAACTCCTACCTCCCATC
 CCCTGAGGTGGTCCCCATTCTCCTCCCTCCCTTCCCTCCCCCGCCATGCTCCAGTTGTGGAA
 GGTGGTACGCCCAGCTCGGCAGCTGGAAGTGCACCGCCTCATACTGCTGCTGATCGCTTT
 CAGCCTGGGCTCCATGGGCTTCTGGCTTATTATGTGTCCACCAGCCCTAAGGCCAAGGA
 ACCCTTGCCCCCTGCCCTTGGGAGACTGCAGCAGCGGTGGGGCAGCTGGTCCTGGCCCTGC
 ACGGCCTCCAGTTCCACCTCGGCCCCCAGGCCTCCAGAGACAGCTCGAACTGAACCCGT
 GGTCTTTGTGTTTTGTGGAGAGTGCATACTCACAGCTGGGGCAGGAAATTGTGGCCATCCT
 GGAGTCTAGTCGTTTTTCGTTATAGCACTGAGTTGGCACCTGGCCGAGGGGACATGCCAC
 ATTGACTGATAATACCATGGCCGCTATGTCTTGGTCATTTATGAGAACCCTGCTCAAGTA
 TGTCAACCTGGATGCCTGGAGTCGGGAACTGCTAGACCGGTACTGCGTGGAGTATGGTGT
 GGGCATCATTGGCTTTTTTCCGAGCCACGAGCACAGCCTACTGAGCGCCAGCTCAAGGG
 CTTTTCCCCTTTTTTTTCACTCAAACCTTGGGGCTCCGGGACTACCAAGTGAATCCTTCTGC
 CCCGCTACTGCATCTCACACGCCCCAGCCGCTAGAACCAGGGCCACTGCCTGGTGATGA
 CTGGACCATCTTCCAATCCAATCATAGTACATATGAACCAGTGCTTCTTGCCAGCCTTCG
 GCCAGCTGAGCCCGCAGTGCCAGGACCAGTTCTTCGTGCGGGCCCGCTTCCCACTGTGGT
 ACAGGACCTGGGGCTTCATGATGGCATCCAGCGGGTGCTCTTTGGACATGGCCTTTCCTT
 CTGGCTCCACAACTTATCTTCGTTGATGCTGTTGCATACCTCACTGGCAAGCGCCTCTG
 CCTGGACCTTGACCGCTACATCTTGGTAGACATCGATGACATCTTTGTGGGCAAGGAAGG
 GACCCGCATGAAGGTGGCTGATGTTGAGGCTCTGTTGACCACCCAGAACAAACTCAGGAC
 CTTAGTTCCCAACTTCACCTTCAACTTGGGCTTCTCGGGCAAGTTCTATCATACTGGGAC
 AGAGGAGGAGGATGCAGGGGACGACATGCTGCTGAAGCACCGCAAAGAGTTCTGGTGGTT
 CCCCCACATGTGGAGCCACATGCAGCCACACCTGTTCCACAATCGCTCCGTGCTGGCTGA
 CCAGATGAGGCTCAACAAACAGTTTGCTCTGGAGCATGGGATTCCCACGGACCTGGGGTA
 TGCTGTGGCCCCCACCACCTCGGGTGTGTACCCCATCCACACGCAGCTCTATGAGGCCTG
 GAAATCCGTGTGGGGCATCCAGGTGACCAGCACTGAGGAGTATCCCATCTCCGCCCTGC
 CCGCTACCGCCGTGGCTTCATTCACAATGGCATTATGGTGTGCTGCCCCGGCAGACATGTGG
 CCTCTTCACTCACACAATCTTCTATAATGAGTATCCTGGAGGCTCTCGTGAACTAGACCG
 GAGCATCCGAGGTGGAGAGCTCTTTCTGACAGTGCTGCTTAATCCGATCAGCATCTTTAT
 GACCCATCTGTCCAATTATGGAAATGACCGGCTGGGCCTATACACCTTTGAGAGCTTGGT
 GCGCTTCCTCCAGTGTTGGACACGGCTGCGCCTACAGACCCTTCCTCCTGTCCCACCTTGC
 ACAGAAGTACTTTGAACTTTTTCCCTCAGGAGCGAAGCCCCCTTTGGCAGAATCCCTGTGA
 TGACAAGAGGCACAAAGATATCTGGTCCAAGGAGAAAACCTGTGATCGTCTCCCGAAGTT
 CCTCATTGTGGGACCCAGAAAACAGGGACTACAGCTATTCACTTCTTCTGAGCCTGCA
 CCCAGCTGTAAC TAGCAGCTTCCCTAGCCCCAGCACATTTGAGGAGATTAGTTCTTCAA
 CAGCCCTAATTACCACAAGGGTATTGACTGGTACATGGATTTCTTCCCTGTTCTTCCAA
 TGCCAGCACTGATTTCTATTTGAAAAAAGTGCCACCTACTTTGACTCTGAAGTTGTACC
 ACGGCGGGGGGCTGCCCTCCTGCCACGAGCCAAGATCATCACAGTGCTCACCAACCCTGC
 TGACAGGGCCTACTCCTGGTACCAGCATCAGCGAGCCCATGGAGACCCAGTTGCTCTGAA
 CTATACCTTCTATCAGGTGATTTCAGCCTCCTCCCAGACCCTCTGGCACTACGCTCCCT
 GCAGAACCCTGTCTTGTCCCTGGCTACTATTCTA CCCATCTACAACGCTGGCTGACTTA
 CTACCCCTCTGGACAGTTGCTGATTGTGGATGGGCAAGAGCTGCGTACCAACCCAGCAGC
 CTCAATGGAGAGCATCCAGAAGTTCCTGGGTATCACACCCTTTCTGAACTACACACGGAC
 CCTCAGGTTTGATGATGATAAGGGATTTTGGTGCCAGGGACTTGAAGGTGGTAAGACTCG
 CTGTCTAGGCCGGAGCAAAGGCCGGAGGTATCCAGATATGGACACTGAGTCCCGTCTTTT
 CCTTACGGATTTTTTCCGGAACCATAAATTTGGAGTTGTGGAAGCTGCTGAGCCGGCTTGG
 ACAGCCAGTGCCCTCGTGGCTTCCGGAAGAACTGCAGCATTCCAGTCTGGGCTGATGTCC
 CAGCCTCCCATACCAGCAAAATGCCCCCTGCTTCCCTAAGGGGCAGGTCCAGAGCAGGGC
 CCACAAGGGGGATTAGAGTGGCCTGGCCCCCTCCCCCTCTACCTCAGTAGCCCCCAGGCCT
 GAGATGGCTGAGAAGGGAAGGGTATCCTTTTCCCACAGTTCTGGGACAAATAAAGGGGCT
 TCCTTTGGTACCCACATAATAGTGCTAGGTACCTTTGACCCATCATCTTGGGAGGTGGG
 GAGGAATGAGAGGTTCCAGGCAGGGTGTAGGGGAATGTATTAGTCCAATGAGATTTCCCT

FIGURE 1 (CONT'D)

CTTCATCCGCAGCAGTGTATCTATTCTATACCTGGCTATGGGAGAGACCCCTTGCATGGG
 AGGGACCCCTTGCTATGGCCCTTTAGCCAGGCAGTGGGATCTACCTGTGGCCCGGCCTC
 CCTAATGTCAATTCACATTGAATGGGGATGAGGTTCGACAGTGGCTCATAGAGCCGAGTAT
 GAGCCCTAGCTGTGGGCTAGAAATGTCCTTAATAAACATCCTTATTTTTCTGTTT
 Gene 195. >ENST00000322680 cDNA sequence
 AGTCTCGCGGTGCTGCCGGGCTCAGCCCCGTCTCCTCCTCTTGCTCCCTCGGCCGGGCGG
 CGGTGACTGTGCACCGACGTCCGGCGGGGCTGCACCGCCGCGTCCGCCCGCCGCCAGCA
 TGGCCACCACCGCCACCTGCACCCGTTTACCGACGACTACCAGCTCTTCGAGGAGCTTG
 GCAAGGGTGCTTTCTCTGTGGTCCGCAGGTGTGTGAAGAAAACCTCCACGCAGGAGTACG
 CAGCAAAAATCATCAATACCAAGAAGTTGTCTGCCCGGGATCACCAGAACTAGAACGTG
 AGGCTCGGATATGTGCACTTCTGAAACATCCAAACATCGTGCGCCTCCATGACAGTATTT
 CTGAAGAAGGGTTTCACTACCTCGTGTGTTGACCTTGTTACCGCGGGGAGCTGTTTGAAG
 ACATTGTGGCCAGAGAGTACTACAGTGAAGCAGATGCCAGCCACTGTATACATCAGATTC
 TGGAGAGTGTAAACCATCCACCAGCATGACATCGTCCACAGGGACCTGAAGCCTGAGA
 ACCTGCTGCTGGCGAGTAAATGCAAGGGTGCCCGCGTCAAGCTGGCTGATTTTGGCCTAG
 CCATCGAAGTACAGGGAGAGCAGCAGGCTTGTTTGGTTTTGCTGGCACCCAGGTTACT
 TGTCCCCTGAGGTCTTGAGGAAAGATCCCTATGGAAAACCTGTGGATATCTGGGCCTGCG
 GGGTCATCCTGTATATCCTCCTGGTGGGCTATCCTCCCTTCTGGGATGAGGATCAGCACA
 AGCTGTATCAGCAGATCAAGGCTGGAGCCTATGATTTCCCATCACCAGAATGGGACACGG
 TAACTCCTGAAGCCAAGAAGTTGATCAACCAGATGCTGACCATAAAACCCAGCAAAGCGCA
 TCACGGCTGACCAGGCTCTCAAGCACCCGTGGGTCTGTCAACGATCCACGGTGGCATCCA
 TGATGCATCGTCAGGAGACTGTGGAGTGTGTCGCAAGTTCAATGCCCGGAGAAAACTGA
 AGGGTGCCATCCTCACGACCATGCTTGTCTCCAGGAACTTCTCAGCTGCCAAAAGCCTAT
 TGAAACAAGAAGTCGGATGGCGGTGTCAAGCCAAGAGCAACAACAAAAACAGTCTCGTAA
 GCCCAGCCCAAGAGCCCGCGCCCTTGACAGACGGCCATGGAGCCACAAACCACTGTGGTAC
 ACAACGCTACAGATGGGATCAAGGGCTCCACAGAGAGCTGCAACACCACCAAGAAGATG
 AGGACCTCAAAGCTGCCCCGCTCCGCACTGGGAATGGCAGCTCGGTGCCTGAAGGACGGA
 GCTCCCCGGGACAGAAACAGCCCCCTCTGCAGGCATGCAGCCCCAGCCTTCTCTGCTCCT
 CAGCCATGCGAAAACAGGAGATCATTAAAGATTACAGAACAGCTGATTGAAGCCATCAACA
 ATGGGGACTTTGAGGCCTACACGAAGATTTGTGATCCAGGCCTCACTTCTTTGAGCCTG
 AGGCCCTTGGTAACCTCGTGGAGGGGATGGATTTCCATAAGTTTTACTTTGAGAATCTCC
 TGTCCAAGAACAGCAAGCCTATCCATACCACCATCCTAAACCCACACGTCACGTCATTG
 GGGAGGACGCAGCGTGCATCGCCTACATCCGCCTCACCAGTACATCGACGGGCAGGGTC
 GGCCTCGCACCAGCCAGTCAGAAGAGACCCGGGTCTGGCACCGTCGGGATGGCAAGTGGC
 TCAATGTCCAATATCACTGCTCAGGGGCCCCCTGCCGCACCGCTGCAGTGAGCTCAGCCAC
 AGGGGCTTTAGGAGATTCCAGCCGGAGGTCCAACCTTCGCAGCCAGTGGCTCTGGAGGGC
 CTGAGTGACAGCGGCAGTCTGTTTGTGTTGAGGTTTAAAAACAATTCAATTACAAAAGCGG
 CAGCAGCCAATGCACGCCCCCTGCATGCAGCCCTCCCGCCCCGCTTCTGTGTCTGTCTG
 CTGTACCGAGGTGTTTTTTTACATTTAAGAAAAAAGAAAAAAGATTGTTTTAAAA
 AAAAAAGGAATCCATACCATGATGCGTTTTTAAACCACCGACAGCCCTTGGGTGGCAAG
 AAGGCAGGAGTATGTATGAGGTCCATCCTGGCATGAGCAGTGGCTCACCCACCGGCCTTG
 AAGAGGTGAGCTTGGCCTCTCTGGTCCCCATGGACTTAGGGGGACAGGCAAGAACTCTG
 ACAGAGCTTTGGGGGCCGTGATGTGATTGCAGCTCCTGAGGTGGCCTGCTTACCCAGGT
 CTAGGAATGAACTTCTTTGGAACTTGATAGGCGCCTAGAATGGGGCTGATGAGAAACATC
 GTGACCATCAGACCTACTTGGGAGAGAACGCAGAGCTCCAGCCTGCTGTGGAGGCAGCT
 GAGAAGTGGTGGCCTCAGGACTGAGAGCCCGGACGTTGCTGTACTGTCTTGTGTTAGTGTA
 GAAGGGAAGAGAATTGGTGCTGCAGAAGTGTAACCGCCATGAAGCCGATGAGAAAACCTCG
 TGTAGTCTGACATGCACTCACTCATCCATTTCTATAGGATGCACAATGCATGTGGGCC
 TAATATTGAGGCCTTATCCCTGCAGCTAGGAGGGGGAGGGGTGTTGCTGCTTTGCTTCG
 TGTTTTCTTCTAACCTGGCAAGGAGAGAGCCAGGCCCTGGTCAGGGCTCCCGTGCCGCT
 TTGGCGGTTCTGTTTCTGTGCTGATCTGGACCATCTTTGTCTTGCTTTTACGGTAGTG
 GTCCCCATGCTGACCCTCATCTGGGCCTGGGCCCTCTGCCAAGTGCCCCCTGTGGGATGGG
 AGGAGTGAGGCAGTGGGAGAAGAGGTGGTGGTCGTTTCTATGCATTTCAGGCTGCCTTTGG
 GGCTGCCTCCCTTCTTATTCTTCTTCTGCTGCACGTCCATCTCTTTCTGTCTTTGAGAT

FIGURE 1 (CONT'D)

TGACCTGACTGCTCTGGCAAGAAGAAGAGGTGTCCTTACAGAGGCCTCTTTACTGACCAA
CTGAAGTATAGACTTACTGCTGGACAATCTGCATGGGCATCACCCCTCCCGCATGTAAC
CCAAAAGAGGTGTCCAGAGCCAAGGCTTCTACCTTCATTGTCCCTCTCTGTGCTCAAGGA
GTTCCATTCCAGGAGGAAGAGATCTATACCCTAAGCAGATAGCAAAGAAGATAATGGAGG
AGCAATTGGTCATGGCCTTGGTTTCCCTCAAAACAACGCTGCAGATTTATCTGCACAAAC
ATCTCCACTTTTGGGGGAAAGGTGGGTAGATTCCAGTTCCTGGACTACCTTCAGGAGGC
ACGAGAGCTGGGAGAAGAGGCAAAGCTACAGGTTTACTTGGGAGCCAGCTGAGAAGAGAG
CAGACTCACAGGTGCTGGTGCTTGGATTTAGCCAGGCTCCTCCGAGCACCTCATGCATGT
CCCAGCCCCTGGGCCCTAGCCCTTTCTGCTGCCCTGCAGTCTGCAGTGCCAGCACGCAAATC
CCTTCACCACAGGGTTTTCGTTTTGCTGGCTTGAAGACAAATGGTCTTAGAATTCATTGAG
ACCCATAGCTTCATATGGCTGCTCCAGCCCCACTTCTTAGCATTCTTACTCCTCTTCTGG
GGCTAATGTGAGCATCTATAGACAATAGACTATTAAAAAATCACCTTTTAAACAAGAAAC
GGAAGGCATTTGATGCAGAATTTTTGCATGACAAATAGAAATAATTTAAAAATAGTGTT
TGTTCTGAATGTTGGTAGACCTTCATAGCTTTGTTACAATGAAACCTTGAAGTGAATAAT
ATTTAATAAAATAACCTTTAAACAGTC

Gene 196. >ENST00000305762 cDNA sequence

CCCGTCTCCTCCTCTTGCTCCCTCGGCCGGGCGGCGGTGACTGTGCACCGACGTCGGCGC
GGGCTGCACCGCCGCGTCCGCCCGCCGCGCAGCATGGCCACCACCGCCACCTGCACCCGT
TTCACCGACGACTACCAGCTCTTCGAGGAGCTTGGCAAGGGGATGATACCCTCTTTTAA
TCTTTCTTCCCGACCTTCAACTGTTCTGCTGAGAGAAGGGCAGGGTCTCTCTGCTCC
CTTCTGCCCTGGTTCTCTTGGCCGGGACCGCAGGGCTGTCTGAGATGCAGCAGGTGTGCT
TTCTCTGTGGTCCGCGAGGTGTGTGAAGAAAACCTCCACGCAGGAGTACGCAGCAAAAATC
ATCAATACCAAGAAGTTGTCTGCCCAGGATCACAGAAACTAGAACGTGAGGCTCGGATA
TGTGCACTTCTGAAACATCCAAACATCGTGCGCCTCCATGACAGTATTTCTGAAGAAGGG
TTTCACTACCTCGTGTGTTGACCTTGTACCGGCGGGGAGCTGTTTGAAGACATTGTGGCC
AGAGAGTACTACAGTGAAGCAGATGCCAGCCACTGTATACATCAGATTCTGGAGAGTGTT
AACCACATCCACCAGCATGACATCGTCCACAGGGACCTGAAGCCTGAGAACCTGCTGCTG
GCGAGTAAATGCAAGGGTGCCGCCGTCAAGCTGGCTGATTTTGGCCTAGCCATCGAAGTA
CAGGGAGAGCAGCAGGCTTGGTTTTGGTTTTGCTGGCACCCAGGTTACTTGTCCCCTGAG
GTCTTGAGGAAAGATCCCTATGGAAAACCTGTGGATATCTGGGCCTGCGGGGTGATCCTG
TATATCCTCCTGGTGGGCTATCCTCCCTTCTGGGATGAGGATCAGCACAAGCTGTATCAG
CAGATCAAGGCTGGAGCCTATGATTTCCCATCACAGAAATGGGACACGGTAACTCCTGAA
GCCAAGAACCTTGATCAACCAGATGCTGACCATAAAACCCAGCAAAGCGCATCACGGCTGAC
CAGGCTCTCAAGCACCCGTGGGTCTGTCAACGATCCACGGTGGCATCCATGATGCATCGT
CAGGAGACTGTGGAGTGTTTGCACAAGTTCAATGCCCGGACAAAACCTGAAGGGTGCCATC
CTCACGACCATGCTTGTCTCCAGGAACCTTCTCAGTTGGCAGGCAGAGCTCCGCCCCCGCC
TCGCCTGCGCGAGCGCCGCCCGGCTGGCCGGGCAAGCTGCCAAAAGCCTATTGAACAAG
AAGTCGGATGGCGGTGTCAAGAAAAGGAAGTCAGTTCCAGCGTGCACCTAATGCCACAG
AGCAACAACAAAACAGTCTCGTAAGCCAGCCCAAGAGCCCGCGCCCTTGACAGACGGCC
ATGGAGCCACAAACCACTGTGGTACACAACGCTACAGATGGGATCAAGGGCTCCACAGAG
AGCTGCAACACCACCAAGAAGATGAGGACCTCAAAGCTGCCCCGCTCCGCACTGGGAAT
GGCAGCTCGGTGCCTGAAGGACGGAGCTCCCGGACAGAACAGCCCCCTCTGCAGGCATG
CAGCCCCAGCCTTCTCTCTGCTCCTCAGCCATGCGAAAACAGGAGATCATTAAGATTACA
GAACAGCTGATTGAAGCCATCAACAATGGGGACTTTGAGGCCTACACGAAGATTTGTGAT
CCAGGCCTCACTTCTTTGAGCCTGAGGCCCTTGGTAACCTCGTGGAGGGGATGGATTTT
CATAAGTTTTACTTTGAGAATCTCCTGTCCAAGAACAGCAAGCCTATCCATACCACCATC
CTAAACCCACACGTCCACGTGATTGGGGAGGACGACGCGTGCATCGCCTACATCCGCCTC
ACCCAGTACATCGACGGGCAGGGTCGGCCTCGCACAGCCAGTCAGAAGAGACCCGGGTC
TGGCACCGTCGGGATGGCAAGTGGCTCAATGTCCACTATCACTGCTCAGGGGCCCCCTGCC
GCACCGCTGCAGTGAGCTCAGCCACAGGGGGCTTTAGGAGATTCCAGCCGGAGGTCCAAC
CTTCGACGACAGTGGCTCTGGAGGGCCTGAGTGACAGCGGCAGTCCTGTTTGTGTTGAG

Gene 197. >ENST00000322635 cDNA sequence

AGTCTCGCGGTGCTGCCGGGCTCAGCCCCGTCTCCTCCTCTTGCTCCCTCGGCCGGGCGG
CGGTGACTGTGCACCGACGTCCGCGCGGGCTGCACCGCCGCGTCCGCCCGCCCGCCAGCA

FIGURE 1 (CONT'D)

TGGCCACCACCGCCACCTGCACCCGTTTCACCGACGACTACCAGCTCTTCGAGGAGCTTG
GCAAGGGTGCTTTCTCTGTGGTCCGCAGGTGTGTGAAGAAAACCTCCACGCAGGAGTACG
CAGCAAAAATCATCAATACCAAGAAGTTGTCTGCCCGGGATCACCAGAACTAGAACGTG
AGGCTCGGATATGTCGACTTCTGAAACATCCAAACATCGTGCGCCTCCATGACAGTATTT
CTGAAGAAGGGTTTCACTACCTCGTGTGTTGACCTTGTTACCGGCGGGGAGCTGTTTGAAG
ACATTGTGGCCAGAGAGTACTACAGTGAAGCAGATGCCAGCCACTGTATACATCAGATTCT
TGGAGAGTGTTAACCACATCCACCAGCATGACATCGTCCACAGGGACCTGAAGCCTGAGA
ACCTGCTGCTGGCGAGTAAATGCAAGGGTGCCCGCTCAAGCTGGCTGATTTTGGCCTAG
CCATCGAAGTACAGGGAGAGCAGCAGGCTTGTTTGGTTTTGCTGGCACCCAGGTTACT
TGTCCCCTGAGGTCTTGAGGAAAGATCCCTATGGAAGAACCTGTGGATATCTGGGCCTGCG
GGGTCTATCCTGTATATCCTCCTGGTGGGCTATCCTCCCTTCTGGGATGAGGATCAGCACA
AGCTGTATCAGCAGATCAAGGCTGGAGCCTATGATTTCCCATCACCAGAATGGGACACGG
TAACTCCTGAAGCCAAGAAGTTGATCAACCAGATGCTGACCATAAACCCAGCAAAGCGCA
TCACGGCTGACCAGGCTCTCAAGCACCCGTGGGTCTGTCAACGATCCACGGTGGCATCCA
TGATGCATCGTCAGGAGACTGTGGAGTGTGTCGCAAGTTCAATGCCCAGGAGAAAAGTGA
AGGGTGCCATCCTCAGCAGCATGCTTGTCTCAGGAAGTTCTCAGTTGGCAGGCAGAGCT
CCGCCCCCGCCTCGCCTGCCGCGAGCGCCGCGGCCTGGCCGGGCAAGCTGCCAAAAGCC
TATTGAACAAGAAGTCGGATGGCGGTGTCAAGAAAAGGAAGTCGAGTTCCAGCGTGCACC
TAATGGAGCCACAAACCACTGTGGTACACAACGCTACAGATGGGATCAAGGGCTCCACAG
AGAGCTGCAACACCACCACAGAAGATGAGGACCTCAAAGTGCAGAAAACAGGAGATCATT
AGATTACAGAACAGCTGATTGAAGCCATCAACAATGGGGACTTTGAGGCCTACACGAAGA
TTTGTGATCCAGGCCTCACTTCCTTTGAGCCTGAGGCCCTTGGTAACCTCGTGGAGGGGA
TGGATTTCCATAAGTTTTACTTTGAGAATCTCCTGTCCAAGAACAGCAAGCCTATCCATA
CCACCATCCTAAACCCACACGTCCACGTGATTGGGGAGGACGCAGCGTGCATCGCCTACA
TCCGCCTCACCCAGTACATCGACGGGCAGGGTCCGCCTCGCACCAGCCAGTCAGAAGAGA
CCCGGGTCTGGCACCCGTGGGATGGCAAGTGGCTCAATGTCCACTATCACTGCTCAGGGG
CCCCTGCCGCACCGCTGCAGTGAGCTCAGCCACAGGGGCTTTAGGAGATTCCAGCCGGAG
GTCCAACCTTCGCAGCCAGTGGCTCTGGAGGGCCTGAGTGACAGCGGCAGTCCTGTTTGT
TTGAGGTTTTAAACAATTCAATTACAAAAGCGGCAGCAGCCAATGCACGCCCCCTGCATGC
AGCCCTCCCGCCCGCCCTTCGTGTCTGTCTCTGCTGTACCGAGGTGTTTTTTACATTTAA
GAAAAAAAAAAAAAGAAAAAAGATTGTTTTAAAAAAAAAAGGAATCCATACCATGATGCGT
TTTTAAACCAACCGACAGCCCTTGGGTGGCAAGAAGGCAGGAGTATGTATGAGGTCCATC
CTGGCATGAGCAGTGGCTCACCCACCGGCCTTGAAGAGGTGAGCTTGGCCTCTCTGGTCC
CCATGGACTTAGGGGGACAGGCAAGAACTCTGACAGAGCTTTGGGGGCCGTGATGTGAT
TGCAGCTCCTGAGGTGGCCTGCTTACCCAGGTCTAGGAATGAACTTCTTTGGAACTTGC
ATAGGCGCCTAGAATGGGGCTGATGAGAACATCGTGACCATCAGACCTACTTGGGAGAGA
ACGCAGAGCTCCAGCCTGCTGTGGAGGCAGCTGAGAAGTGGTGGCCTCAGGACTGAGAG
CCCGGACGTTGCTGTACTGTCTTGTGTTAGTGTAGAAGGGAAGAGAATTGGTGTGTCAGAA
GTGTACCCGCCATGAAGCCGATGAGAAACCTCGTGTTAGTCTGACATGCACTCACTCATC
CATTTCTATAGGATGCACAATGCATGTGGGCCCTAATATTGAGGCCTTATCCCTGCAGCT
AGGAGGGGGAGGGGTTGTTGCTGCTTTGCTTCGTGTTTTCTTCTAACCTGGCAAGGAGAG
AGCCAGGCCCTGGTCAGGGCTCCCGTGCCGCTTTGGCGGTTCTGTTTTCTGTGCTGATCT
GGACCATCTTTGTCTTGCTTTTACGGTAGTGGTCCCCATGCTGACCCTCATCTGGGCC
TGGGCCCTCTGCCAAGTGCCCTGTGGGATGGGAGGAGTGAGGCAGTGGGAGAAGAGGTG
GTGGTCTGTTTTCTATGCATTACAGGCTGCCTTTGGGGCTGCCTCCCTTCTTATTCTTCCTTG
CTGCACGTCCATCTCTTTTCTGTCTTTGAGATTGACCTGACTGCTCTGGCAAGAAGAAG
AGGTGTCTTACAGAGGCCTCTTTACTGACCAACTGAAGTATAGACTTACTGCTGGACAA
TCTGCATGGGCATCACCCCTCCCCGCATGTAACCCAAAAGAGGTGTCCAGAGCCAAGGCT
TCTACCTTCATTGTCCCTCTCTGTGCTCAAGGAGTTCATTCCAGGAGGAAGAGATCTAT
ACCCTAAGCAGATAGCAAAGAAGATAATGGAGGAGCAATTGGTCATGGCCTTGGTTTCCC
TCAAAACAACGCTGCAGATTTATCTGCAAAACATCTCCACTTTTGGGGGAAAGGTGGGT
AGATTCCAGTTCCCTGGACTACCTTCAGGAGGCAAGAGAGCTGGGAGAAGAGGCAAAGCT
ACAGGTTTACTTGGGAGCCAGCTGAGAAGAGAGCAGACTCACAGGTGCTGGTCTTGGAT
TTAGCCAGGCTCCTCCGAGCACCTCATGCATGTCCAGCCCCTGGGCCCTAGCCCTTCC

FIGURE 1 (CONT'D)

TGCCCTGCAGTCTGCAGTGCCAGCACGCAAATCCCTTCACCACAGGGTTTCGTTTTGCTG
GCTTGAAGACAAATGGTCTTAGAATTCAATTGAGACCCATAGCTTCATATGGCTGCTCCAG
CCCCACTTCTTAGCATTCTTACTCCTCTTCTGGGGCTAATGTGAGCATCTATAGACAATA
GACTATTAAAAAATCACCTTTTAAACAAGAAACGGAAGGCATTTGATGCAGAATTTTTGC
ATGACAACATAGAAATAATTTAAAAATAGTGTGTTCTGAATGTTGGTAGACCCCTTCAT
AGCTTTGTTACAATGAAACCTTGAAGTGAATAATTTAATAAAATAACCTTTAAACAGTC
Gene 198. >ENST00000277853 cDNA sequence
AGTCTCGCGGTGCTGCCGGGCTCAGCCCCGTCTCCTCCTTGTCTCCCTCGGCCGGGCGG
CGGTGACTGTGCACCGACGTGCGCGCGGGCTGCACCGCCGCGTCCGCCCGCCCGCCAGCA
TGGCCACCACCGCCACCTGCACCCGTTTCACCGACGACTACCAGCTCTTCGAGGAGCTTG
GCAAGGGTGCTTTCTCTGTGGTCCGAGGTGTGTGAAGAAAACCTCCACGCAGGAGTACG
CAGCAAAAATCATCAATACCAAGAAGTTGTCTGCCCGGGATCACCAGAACTAGAACGTG
AGGCTCGGATATGTGACTTCTGAAACATCCAAACATCGTGCCTCCATGACAGTATTT
CTGAAGAAGGGTTTCACTACCTCGTGTGTTGACCTTGTTACCGCGGGGAGCTGTTTGAAG
ACATTGTGGCCAGAGAGTACTACAGTGAAGCAGATGCCAGCCACTGTATACATCAGATTC
TGGAGAGTGTTAACCACATCCACCAGCATGACATCGTCCACAGGGACCTGAAGCCTGAGA
ACCTGCTGCTGGCGAGTAAATGCAAGGGTGCCCGCTCAAGCTGGCTGATTTTGGCCTAG
CCATCGAAGTACAGGGAGAGCAGCAGGCTTGTTTGGTTTTGCTGGCACCCAGGTTACT
TGTCCCCTGAGGTCTTGAGGAAAGATCCCTATGGAAAACCTGTGGATATCTGGGCCTGCG
GGGTCACTCCTGTATATCCTCCTGGTGGGCTATCCTCCCTTCTGGGATGAGGATCAGCACA
AGCTGTATCAGCAGATCAAGGCTGGAGCCTATGATTTCCCATCACCAGAATGGGACACGG
TAACTCCTGAAGCCAAGAAGCTTGATCAACCAGATGCTGACCATAAACCCAGCAAAGCGCA
TCACGGCTGACCAGGCTCTCAAGCACCCTGCGGTCTGTCAACGATCCACGGTGGCATCCA
TGATGCATCGTCAGGAGACTGTGGAGTGTGTCGCAAGTTCAATGCCCGGAGAAAACCTGA
AGGGTGCCATCCTCAGCACCATGCTTGTCTCAGGAACCTCTCAGCTGCCAAAAGCCTAT
TGAACAAGAAGTCGGATGGCGGTGTCAAGGAGCCCAAACCACTGTGGTACACAACGCTA
CAGATGGGATCAAGGGCTCCACAGAGAGCTGCAACACCACCAAGAAGATGAGGACCTCA
AAGTGCGAAAACAGGAGATCATTAAAGATTACAGAACAGCTGATTGAAGCATCAACAATG
GGGACTTTGAGGCCTACACGAAGATTTGTGATCCAGGCCTCACTTCTTTGAGCCTGAGG
CCCTTGGTAACCTCGTGGAGGGGATGGATTTCCATAAGTTTTACTTTGAGAATCTCCTGT
CCAAGAACAGCAAGCCTATCCATACCACCATCCTAAACCCACACGTCCACGTGATTGGGG
AGGACGCAGCGTGCATCGCCTACATCCGCCTCAGCCAGTACATCGACGGGCAGGGTCGGC
CTCGCACCAGCCAGTCAGAAGAGACCCGGGTCTGGCACCGTCGGGATGGCAAGTGGCTCA
ATGTCCACTATCACTGCTCAGGGGCCCCCTGCCGCACCGCTGCAGTGAGCTCAGCCACAGG
GGCTTTAGGAGATTCCAGCCGGAGGTCACACCTTCGAGCCAGTGGCTCTGGAGGGCCTG
AGTGACAGCGGCAGTCTGTTTTGTTTGGAGGTTTAAAAACAATTCAATTACAAAAGCGGCAG
CAGCCAATGCACGCCCCCTGCATGCAGCCCTCCCGCCCGCCCTTCGTGTCTGTCTCTGCTG
TACCGAGGTGTTTTTTACATTTAAGAAAAAAGAAAAAAGATTGTTTTAAAAA
AAAGGAATCCATACCATGATGCGTTTTAAACACCGACAGCCCTTGGGTTGGCAAGAAG
GCAGGAGTATGTATGAGGTCCATCCTGGCATGAGCAGTGGCTCACCCACCGGCCTTGAAG
AGGTGAGCTTGGCCTCTCTGGTCCCCATGGACTTAGGGGGACCAGGCAAGAACTCTGACA
GAGCTTTGGGGGCCGTGATGTGATTGCAGCTCCTGAGGTGGCCTGCTTACCCAGGTCTA
GGAATGAACTTCTTTGGAACCTGCATAGGCGCCTAGAATGGGGCTGATGAGAACATCGTG
ACCATCAGACCTACTTTGGGAGAGAACGCAGAGCTCCAGCCTGCTGTGGAGGCAGCTGAG
AAGTGGTGGCCTCAGGACTGAGAGCCCGGACGTTGCTGTACTGTCTTGTGTTAGTGTAGAA
GGGAAGAGAATTGGTGTGTCAGAAGTGTACCCGCCATGAAGCCGATGAGAAACCTCGTGT
TAGTCTGACATGCACTCACTCATCCATTTCTATAGGATGCACAATGCATGTGGGCCCTAA
TATTGAGGCCTTATCCCTGCAGCTAGGAGGGGGAGGGGTTGTTGCTGCTTTGCTTCGTGT
TTTCTTCTAACCTGGCAAGGAGAGAGCCAGGCCCTGGTCAGGGCTCCCGTGCCGCCCTTTG
GCGGTTCTGTTTCTGTGCTGATCTGGACCATCTTTGTCTTGCTTTTACGGTAGTGGTC
CCCATGCTGACCCTCATCTGGGCCTGGGCCCTCTGCCAAGTGCCCTGTGGGATGGGAGG
AGTGAGGCAGTGGGAGAAGAGGTGGTGGTCTGTTTCTATGCATTACAGGCTGCCTTTGGGGC
TGCCTCCCTTCTTATTCTTCTTGCTGCACGTCCATCTCTTTTCTGTCTTTGAGATTGA
CCTGACTGCTCTGGCAAGAAGAAGAGGTGTCTTACAGAGGCCTCTTTACTGACCAACTG

FIGURE 1 (CONT'D)

AAGTATAGACTTACTGCTGGACAATCTGCATGGGCATCACCCCTCCCCGCATGTAACCCA
AAAGAGGTGTCCAGAGCCAAGGCTTCTACCTTCATTGTCCCTCTCTGTGCTCAAGGAGTT
CCATTCCAGGAGGAAGAGATCTATACCCTAAGCAGATAGCAAAGAAGATAATGGAGGAGC
AATTGGTCATGGCCTTGGTTTCCCTCAAAACAAACGCTGCAGATTTATCTGCACAAACATC
TCCACTTTTGGGGGAAAGGTGGGTAGATTCCAGTTCCTGGACTACCTTCAGGAGGCACG
AGAGCTGGGAGAAGAGGCAAAGCTACAGGTTTACTTGGGAGCCAGCTGAGAAGAGAGCAG
ACTCACAGGTGCTGGTGCTTGGATTTAGCCAGGCTCCTCCGAGCACCTCATGCATGTCCC
AGCCCCCTGGGCCCTAGCCCTTTCTGCCCTGCAGTCTGCAGTGCCAGCACGCAAATCCCT
TCACCACAGGGTTTTCGTTTTGCTGGCTTGAAGACAAATGGTCTTAGAATTCAATTGAGACC
CATAGCTTCATATGGCTGCTCCAGCCCCACTTCTTAGCATTCTTACTCCTCTTCTGGGGC
TAATGTGAGCATCTATAGACAATAGACTATTAAAAAATCACCTTTTAAACAAGAAACGGA
AGGCATTTGATGCAGAATTTTTGCATGACAACATAGAAATAATTTAAAAATAGTGTGTGT
TCTGAATGTTGGTAGACCCTTCATAGCTTTGTTACAATGAAACCTTGAACTGAAAATATT
TAATAAAATAACCTTTAAACAGTC

Gene 199. >ENST00000326278 cDNA sequence

ATAGCTGCCTCTGCCTTTGCCGGTGCAGTGAGAGCAGCTTCAGGAATCTTATGGCCTCTG
AATATTTTGGCATCTTCAGCCTACCAAACTGTGTCAAAAATGCCTCTCTTATTTCTGCA
TTGTCCACTGGACGTTTTAGTCATATTGAGACACAGTTGTTTCTCCACTCCAGACTT
ACCACATCTGAGAGAAACCTGACATGTGGGCATACTTCAGCGATCCTTAATAGAGTGGCC
CTCTTGCTTCCAAGTGTCTTGAAGCTGCCAGCCAGATCTCTAACATACGTGAGTACAGGA
AAAGGCAAGAGAAGGATTGTGAAAGCTGTCTATAGGTTTCTTCGACTTCATTGTGGC
CTTTGGATGAGAAGGGCTGGTTATAAGAAAAAATTATGGAAAAAGGCACCTGCAAGAAAA
AAGCGATTGAGGGAATTTGTATTTCGGCAATAAAACCCAGAGTAAACTCGATAAAATGACG
ACGTCCTTCTGGAAGAGGTGA

Gene 200. >ENST00000333539 cDNA sequence

CAGTGCTCAGCATTACGTAAGAATGGCTTTGTGGTGCTCAAAGGCTGGCCATGTAAGATC
GTGGAGATGTCTGCTTTCGAAGACTGGCAAGCACGGCCACGCCAAGGTCCATCTGGTTGGT
ATTGACATCTTTACTGGGAAGAAATATGAAGATATCTGCCCCGTCAACTCATAATATGGAT
GTCCCCAACATCAAAAGGAATGACTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCA
CTGCTCCAGGACAGCGGGGAGGTACCAGAGGACCTTCGTCTCCCTGAGGGAGACCTTGGC
AAG

Gene 201. >ENST00000242457 cDNA sequence

ATGTGGCTGTGCCCTCTGGCCCTCACCCCTCATCTTGATGGCAGCCTCTGGTGCTGCGTGC
GAAGTGAAGGACGTTTTGTGTTGGAAGCCCTGGTATCCCCGGCACTCCTGGATCCCACGGC
CTGCCAGGCAGGGACGGGAGAGATGGTGTCAAAGGAGACCTTGGCCCTCCAGGCCCATG
GGTCCGCCTGGAGAAAACCATGTCCTCCTGGGAATAATGGGCTGCCTGGAGCCCTGGT
GTCCCTGGAGAGCGTGGAGAGAAGGGGGAGGCTGGCGAGAGAGGCCCTCCAGGGCTTCCA
GCTCATCTAGATGAGGAGCTCCAAGCCACACTCCACGACTTCAGACATCAAATCCTGCAG
ACAAGGGGAGCCCTCAGTCTGCAGGGCTCCATAATGACAGTAGGAGAGAAGGTCTTCTCC
AGCAATGGGCAGTCCATCACTTTTGATGCCATTGAGGAGGCATGTGCCAGAGCAGGCGGC
CGCATTGCTGTCCCAAGGAATCCAGAGGAAAATGAGGCCATTGCAAGCTTCGTGAAGAAG
TACAACACATATGCCTATGTAGGCCTGACTGAGGGTCCCAGCCCTGGAGACTTCCGCTAC
TCAGATGGGACCCCTGTAAACTACACCAACTGGTACCGAGGGGAGCCTGCAGGTGCGGGA
AAAGAGCAGTGTGTGGAGATGTACACAGATGGGCAGTGAATGACAGGAACTGCCTGTAC
TCCCAGCTGACCATCTGTGAGTTCTGA

Gene 202. >ENST00000242455 cDNA sequence

CCCAAGCAGCTGGAGGCTCTGTGTGTGGGTCGCTGATTTCTTGGAGCCTGAAAAGAAAGT
AACACAGCAGGGATGAGGACAGATGGTGTGAGTCAGTGAGAGCAGCGACTGGACCCAGAG
CCATGTGGCTGTGCCCTCTGGCCCTCAACCTCATCTTGATGGCAGCCTCTGGTGCTGTGT
GCGAAGTGAAGGACGTTTTGTGTTGGAAGCCCTGGTATCCCCGGCACTCCTGGATCCCAG
GCCTGCCAGGCAGGGACGGGAGAGATGGTCTCAAAGGAGACCTTGGCCCTCCAGGCCCA
TGGGTCCACCTGGAGAAATGCCATGTCTCTGGAAATGATGGGCTGCCTGGAGCCCCTG
GTATCCCTGGAGAGTGTGGAGAGAAGGGGGAGCCTGGCGAGAGGGGGCCCTCCAGGGCTTC
CAGCTCATCTAGATGAGGAGCTCCAAGCCACACTCCACGACTTTAGACATCAAATCCTGC

FIGURE 1 (CONT'D)

AGACAAGGGGAGCCCTCAGTCTGCAGGGCTCCATAATGACAGTAGGAGAGAAGGTCTTCT
CCAGCAATGGGCAGTCCATCACTTTTGTATGCCATTGAGGAGGCATGTGCCAGAGCAGGCG
GCCGCATTGCTGTCCCAAGGAATCCAGAGGAAAATGAGGCCATTGCAAGCTTCGTGAAGA
AGTACAACACATATGCCTATGTAGGCCTGACTGAGGGTCCCAGCCCTGGAGACTTCCGCT
ACTCAGACGGGACCCCTGTAACTACACCAACTGGTACCGAGGGGAGCCCGCAGGTGCGG
GAAAAGAGCAGTGTGTGGAGATGTACACAGATGGGCAGTGAATGACAGGAACTGCCTGT
ACTCCCGACTGACCATCTGTGAGTTCTGA

Gene 203. >ENST00000260878 cDNA sequence

CCTGCCTGACATCTGGGTAGGGGGTTTGTCCCTGGAATTCTGGGACACTGGCTGGGGTTT
GAGGAGAGAAGCCAGTACCTACCTGGCTGCAGGATGAAGCTGGCCAGTGGCTTCTTGTT
TTGTGGCTCAGCCTTGGGGGTGGCCTGGCTCAGAGCGACACGAGCCCTGACACGGAGGAG
TCCTATTGAGACTGGGGCCTTCGGCACCTCCGGGGAAGCTTTGAATCCGTCAATAGCTAC
TTCGATTCTTTTCTGGAGCTGCTGGGAGGGAAGAATGGAGTCTGTGAGTACAGGTGCCGA
TATGGAAAGGCACCAATGCCCAGACCTGGCTACAAGCCCCAAGAGCCCAATGGCTGCGGC
TCCTATTTCTGGGTCTCAAGGTACCAGAAAGTATGGACTTGGGCATTCCAGCAATGACA
AAGTGCTGCAACCAGCTGGATGTCTGTTATGACACTTGCGGTGCCAACAAATATCGCTGT
GATGCAAAATTCCGATGGTGTCTCCACTCGATCTGCTCTGACCTTAAGCGGAGTCTGGGC
TTTGTCTCCAAAGTGGAAGCAGCCTGTGATTCCCTGGTTGACACTGTGTTCAACACCGTG
TGGACCTTGGGCTGCCGCCCCCTTTATGAATAGTCAGCGGGCAGCTTGCATCTGTGCAGAG
GAGGAGAAGGAAGAGTTATGAGGAAGAAGTGATTCTTCCTGGTTTTGAGTGACACCACA
GCTGTGAGCCTTCAAGATGTCAAGTCTTCGAGTCAGCGTGACTCATTCAATCTTCCAACA
GTTTGGACACCACAAAGCAGGAGAAAGGGAACATTTTTCTACAGCTGGAAAGTGAGTCCT
ATCCTTTGAGGAAATTTGAAAAAGACATGGAGTGGTTTGAAAGCTACTCTTCATTTAAG
ACTGCTCTCCCCAACCAAGACACATTTGCCTGGAAATTCAGTTCTTAGCTTAAAGACTAA
AATGCAAGCAAACCTGCAATTCCTGGACCTGATAGTTATATTATGAGTGAAATTGTGG
GGAGTCCAGCCATTTGGGAGGCAATGACTTTCTGCTGGCCCATGTTTCAGTTGCCAGTAA
GCTTCTCACATTTAATAAAGTGACTTTTTTA

Gene 204. >ENST00000260885 cDNA sequence

AAAGCAGTGCTTCTCTCTGGGGCCAAGGCCAGAGCTGTGGACACCTTATCCCACTCATCC
TCATCCTCTTCTCTGATAAAGCCCCCTACCAGTGCTGATAAAGTCTTCTCTCGTGAGAGCC
TAGAGGCCTTAAAAAAAAGTGCTTGAAAGAGAAGGGGACAAAGGAACACCAGTATTAA
GAGGATTTTTCAGTGTTTTCTGGCAGTTGGTCCAGAAGGATGCCTCCATTCTGCTTCTCA
CCTGCCTCTTCATCACAGGCACCTCCGTGTCAACCGTGGCCCTAGATCCTTGTTCTGCTT
ACATCAGCCTGAATGAGCCCTGGAGGAACACTGACCACCAGTTGGATGAGTCTCAAGGTC
CTCCTCTATGTGACAACCATGTGAATGGGGAGTGGTACCACTTCACGGGCATGGCGGGAG
ATGCCATGCCTACCTTCTGCATACCAGAAAACCACTGTGGAACCCACGCACCTGTCTGGC
TCAATGGCAGCCACCCCTAGAAGGCGACGGCATTGTGCAACGCCAGGCTTGTGCCAGCT
TCAATGGGAACCTGCTGTCTCTGGAACACCACGGTGGAAAGTCAAGGCTTGCCCTGGAGGCT
ACTATGTGTATCGTCTGACCAAGCCCAGCGTCTGCTTCCACGTCTACTGTGGTCATTTTTT
ATGACATCTGCGACGAGGACTGCCATGGCAGCTGCTCAGATACCAGCGAGTGACATGCG
CTCCAGGAACCTGTGCTAGGCCCTGACAGGCAGACATGCTTTGATGAAAATGAATGTGAGC
AAAACAACGGTGGCTGCAGTGAGATCTGTGTGAACCTCAAAAACCTCCTACCGCTGTGAGT
GTGGGGTTGGCCGTGTGCTAAGAAGTGATGGCAAGACTTGTGAAGACGTTGAAGGATGCC
ACAATAACAATGGTGGCTGCAGCCACTCTTGCCCTTGATCTGAGAAAGGCTACCAAGTGTG
AATGTCCCCGGGGCCTGGTGTGTCTGAGGATAACCACACTTGCCAAGTCCCTGTGTTGT
GCAAATCAAATGCCATTGAAGTGAACATCCCCAGGGAGCTGGTTGGTGGCCTGGAGCTCT
TCCTGACCAACACCTCCTGCCGAGGAGTGTCCAACGGCACCCATGTCAAATCCTCTTCT
CTCTCAAGACATGTGGTACAGTGGTCGATGTGGTGAATGACAAGATTGTGGCCAGCAACC
TCGTGACAGGTCTACCAAGCAGACCCCGGGGAGCAGCGGGGACTTCATCATCCGAACCA
GCAAGCTGCTGATCCCGGTGACCTGCGAGTTTCCACGCCTGTACACCATTCTGAAGGAT
ACGTTCCAACCTTCGAAACTCCCCACTGGAAATCATGAGCCGAAATCATGGGATCTTCC
CATTCACTCTGGAGATCTTCAAGGACAATGAGTTTGAAGAGCCTTACCGGGAAGCTCTGC
CCACCCTCAAGCTTCGTGACTCCCTCTACTTTGGCATTGAGCCCGTGGTGCACGTGAGCG
GCTTGGAAAGCTTGGTGGAGAGCTGCTTTGCCACCCCCACCTCCAAGATCGACGAGGTCC

FIGURE 1 (CONT'D)

TGAAATACTACCTCATCCGGGATGGCTGTGTTTCAGATGACTCGGTAAAGCAGTACACAT
 CCCGGGATCACCTAGCAAAGCACTTCCAGGTCCCTGTCTTCAAGTTTGTGGGCAAAGACC
 ACAAGGAAGTGTCTGCACTGCCGGGTTCTTGTCTGTGGAGTGTGGACGAGCGTTCCC
 GCTGTGCCCAGGGTTGCCACCGGCGAATGCGTCGTGGGGCAGGAGGAGAGGACTCAGCCG
 GTCTACAGGGCCAGACGCTAACAGGCGGCCGATCCGCATCGACTGGGAGGACTAGTTCG
 TAGCCATACCTCGAGTCCCTGCATTGGACGGCTCTGCTCTTTGGAGCTTCTCCCCCACC
 GCCCTCTAAGAACATCTGCCAACAGCTGGGTTCAGACTTCACACTGTGAGTTCAGACTCC
 CAGCACCAACTCACTCTGATTCTGGTCCATTCACTGGGCACAGGTACAGCACTGCTGAA
 CAATGTGGCCTGGGTGGGGTTTCATCTTTCTAGGGTTGAAAATAAACTGTCCACCAGAA
 AAGACACTCACCCCATTTCCCTCATTTCTTTCTTACACTTAAATACCTCGTGTATGGTGC
 AATCAGACCACAAAATCAGAAGCTGGGTATAATATTTCAAGTTACAAACCCTAGAAAAAT
 TAAAAGTTACTGAAATTATGACTTAAATACCAATGACTCCTTAAATATGTAAATTATA
 GTTATACCTTGAAATTTCAATTCAAATGCAGACTAATTATAGGGAATTTGGAAGTGATC
 AATAAAACAGTATATAATTTT

Gene 205. >ENST00000334011 cDNA sequence

AAAGCAGTGCTTCTCTCTGGGGCCAAGGCCAGAGCTGTGGACACCTTATCCCCTCATCC
 TCATCCTCTTCTCTGATAAAGCCCCTACCAGTGCTGATAAAGTCTTTCTCGTGAGAGCC
 TAGAGGCCCTTAAAAAAGTGTCTTGAAGAGAAGGGGACAAAGGAACACCAGTATTAA
 GAGGATTTTCCAGTGTTTCTGGCAGTTGGTCCAGAAGGATGCCTCCATTCTGCTTCTCA
 CCTGCCTCTTTCATCACAGGCACCTCCGTGTCAACCGTGGCCCTAGATCCTTGTCTGCTT
 ACATCAGCCTGAATGAGCCCTGGAGGAACACTGACCACCAGTTGGATGAGTCTCAAGGTC
 CTCTCTATGTGACAACCATGTGAATGGGGAGTGGTACCACTTCACGGGCATGGCGGGAG
 ATGCCATGCCTACCTTCTGCATACAGAAAACCACTGTGGAACCCACGCACCTGTCTGGC
 TCAATGGCAGCCACCCCTAGAAAGGCGACGGCATTGTGCAACGCCAGCTTGTGCCAGCTT
 CAATGGGAAGTGTGTCTCTGGAACACCACGGTGGAAAGTCAAGGCTTGCCGGAGGCTACT
 ATGTGTATCGTCTGACCAAGCCAGCGTCTGCTTCCACGTCTACTGTGGTCATTTTTATG
 ACATCTGCGACGAGGACTGCCATGGCAGCTGCTCAGATACAGCGAGTGACATGCGCTC
 CAGGAACTGTGCTAGGCCCTGACAGGCAGACATGCTTTGATGAAAATGAATGTGAGCAAA
 ACAACGGTGGCTGCAGTGAGATCTGTGTGAACCTCAAAAACCTACCGCTGTGAGTGTG
 GGGTTGGCCGTGTGCTAAGAAGTGATGGCAAGACTTGTGAAGACGTTGAAGGATGCCACA
 ATAA CAATGGTGGCTGCAGCCACTCTTGCCCTTGGATCTGAGAAAGGCTACCAGTGTGAAT
 GTCCCCGGGGCCTGGTGTGTCTGAGGATAACCAACTTGCCAAGTCCCTGTGTTGTGCA
 AATCAAATGCCATTGAAGTGAACATCCCCAGGGAGCTGGTTGGTGGCCTGGAGCTCTTCC
 TGACCAACACCTCCTGCCGAGGAGTGTCCAACGGCACCCATGTCAACATCCTCTTCTCTC
 TCAAGACATGTGGTACAGTGGTTCGATGTGGTGAATGACAAGATTGTGGCCAGCAACCTCG
 TGACAGGTCTACCCAAGCAGACCCCGGGGAGCAGCGGGGACTTCATCATCCGAACCAGCA
 AGCTGCTGATCCCGGTGACCTGCGAGTTTCCACGCCTGTACACCATTTCTGAAGGATACG
 TTCCCAACCTTGCAAAACCTCCCACTGGAAATCATGAGCCGAAATCATGGGATCTTCCCAT
 TCACTCTGGAGATCTTCAAGGACAATGAGTTTGAAGAGCCTTACCGGAAGCTCTGCCCA
 CCCTCAAGCTTTCGTGACTCCCTCTACTTTGGCATTGAGCCCGTGGTGCACGTGAGCGGCT
 TGGAAAGCTTGGTGGAGAGCTGCTTTGCCACCCCCACCTCCAAGATCGACGAGGTCTGA
 AATACTACCTCATCCGGGATGGCTGTGTTTCAGATGACTCGGTAAAGCAGTACACATCCC
 GGGATCACCTAGCAAAGCACTTCCAGGTCCCTGTCTTCAAGTTTGTGGGCAAAGACCACA
 AGGAAGTGTCTGCACTGCCGGGTCTTGTCTGTGGAGTGTGGACGAGCGTTCCCGCT
 GTGCCCAGGGTTGCCACCGGCGAATGCGTCGTGGGGCAGGAGGAGAGGACTCAGCCGGTC
 TACAGGGCCAGACGCTAACAGGCGGCCCGATCCGCATCGACTGGGAGGACTAGTTTCGTAG
 CCATACCTCGAGTCCCTGCATTGGACGGCTCTGCTCTTTGGAGCTTCTCCCCCACCAGCC
 CTCTAAGAACATCTGCCAACAGCTGGGTTCAGACTTCACACTGTGAGTTCAGACTCCCAG
 CACCAACTCACTCTGATTCTGGTCCATTCACTGGGCACAGGTACAGCACTGCTGAACAA
 TGTGGCCTGGGTGGGGTTTCATCTTTCTAGGGTTGAAAATAAACTGTCCACCAGAAAG
 AACTCACCCCATTTCCCTCATTTCTTCTTACACTTAAATACCTCGTGTATGGTGAAT
 CAGACCACAAAATCAGAAGCTGGGTATAATATTTCAAGTTACAAACCCTAGAAAAATTAA
 ACAGTTACTGAAATTATGACTTAAATACCAATGACTCCTTAAATATGTAAATTATAGTT
 ATACCTTGAAATTTCAATTCAAATGCAGACTAATTATAGGGAATTTGGAAGTGATCAAT

FIGURE 1 (CONT'D)

AAAACAGTATATAATTTT

Gene 206. >ENST00000299404 cDNA sequence

AGCCAACACCGCCTTTCTCAGCATGGAGACCTTTGAGCCCATCAGCCAAGAGCCCCTCAG
CCAAGCCAGCTATGACAAAGCCCCAGACCCAGTTCTTGAGCTCCAAGACTCGTTCTATGC
AGAACTGCAACGTGCAGAGAGCCTCCAAGAGAAGAGCATAAAAGAGGCCAAGACCAAATG
CAGGACAATTGCATCCCTGCTCACTGCAGCCCCCAACCCCACTCAAAGGGGTACTTAT
GTTTAAGAAACGGCGGCAGAGAGCCAAGAAGTACACCCTGGTGA GCTTCGGGGCTGCTGC
TGGGACAGGCGCTGAGGAGGAGGACGGCGTTCCCCCACGAGTGAGTCCGAGCTGGACGA
AGAAGCCTTCTCTGACGCCCCGAGCCTCACCAATCAATCTGACTGGGACAGTCCCTATCT
GGACATGGAGCTTGCCAGGGCGGGCTCAAGAGCATCAGAGGGCCAGGGCTCTGGGCTGGG
AGGGCAGCTGAGTGAGGTCTCTGGGCGAGGGGTGCAGCTCTTTGAACAGCAGCGCCAGCG
CGCAGACTCCAGCACCCAGGAACTGGCAGGGTCAACAGCAGCCATGCTCAACGGGGA
AGGCCTGCAGTCACCACCTCGGGCCAGAGTGCTCCCCAGAGGCAGCTGTGCTCCACC
CAGCCCCCTTGCCGGCGCTGTAGCCAGCCCCAGACCCTTCCAACCAGGTGGTGGAGCCCC
GACCCAGCTCCAAGCATCTTTAACCGGTGAGCCAGGCCCTTTACCCCGGGCCTACAAGG
GCAGCGGCCAACTACCACCTCGGTTATTTTCCGGCCTTTAGCCCCAAAAGGGCGAACGA
CAGCCTGGGGGGCCTCAGCCCCGCCCCACCCCCCTTCTTGCTTCGAGGGGGCCACCCC
TCTGCCAGCTTCACTTCAGGGGTTCCAGCCACGCGCCAGTCTCTGGTTCCCCAGCAC
CCCACGCTCCTCGGGCCCTGTGACAGCCACCAGCTCCCTGTACATCCAGCCCCCTAGTCG
GCCTGTCACCCCAGGTGGAGCTCCAGAGCCCCCGCTCCTCCTAGCGCAGCTGCCATGAC
CTCCACCGCTTCTATCTTCTATCTGCGCCTTTGCGACCCTCTGCGCGCCAGAGGCGCC
TGCCCCAGGCCCAGGGGCTCCTGAGCCCCCAGCGCTCGCGAGCAGCGCATCTCTGTGCC
AGCTGCCCCGACGGGTATCCTGCAGGAGGCCCGCGCCGGGGGACCCGGAAGCAGATGTT
CCGGCCGGGAAAGGAGGAGACGAAGAACTCGCCCAACCCCGAGCTGCTATCGCTGGTACA
GAACCTGGATGAAAAGCCTCGGGCCGGGGGTGCAGAATCTGGTCTGAAGAAGATGCTCT
GAGCCTCGGGGCTGAAGCCTGCAACTTCATGCAGCCAGTAGGGGCCAGGAGTTACAAGAC
CCTGCCTCACGTGACACCTAAGACCCCCCTCCAATGGCTCCCAAGACCCCGCCCCCTAT
GACTCCTAAGACTCCACCCCCAGTGGCTCCTAAGCCCCCATCTCGAGGGCTCCTTGATGG
GCTCGTGAATGGGGCAGCCTCTTCGGCTGGAATCCCTGAGCCACCAAGGCTGCAGGGCAG
GGGTGGGGAGCTGTTTGCTAAGCGGCAGAGCCGTGCGGACAGGTATGTGGTGAAGGTAC
ACCTGGTCTGGTCTTGGCCCTCGGCCTAGAAGTCCTTCTCCTACCCCGTCTCTGCCCCC
TTCCTGGAAATATTCAACCAACATCCGTGCCCCGCTCCTATTGCTTACAACCCACTGCT
CTCTCCCTTTTTCCCCAGGCGGCCCGAACTCTCCCTAAGGCCCAATCCCAGGGGCCTCG
GGCAACACCCAAGCAGGGCATCAAGGCTCTAGATTTTATGCGGCATCAGCCCTATCAACT
TAAACTGCCATGTTCTGTTTTGATGAGGTTCCCCCGACTCCTGGCCCTATCGCCTCAGG
GTCCCCAAAAGTGCCTGAGTCCAGGAGATTGCGCGGTTTTTCCAATCCGGCACCCAGCC
CACTGCAGAACCCCTGGCTCCCACTGTGCTTGCCCCCGAGCAGCCACTACACTGGATGA
GCCCATCTGGAGAACAGAACTGGCCTCAGCCCCCTGTTCTAGCCAGCCCCCTCCTCCAGA
GGCTCCCAGGGGCCTTGGGGCTTCTCCAGCTCCTGCGGTTTCCAGGTAGCCAGGCCCCG
ATTTTCAGCCACCAGAACAGGATTGCAAGCTCATGTGTGGAGGCCTGGGGCAGGGCACCA
GTGAACAGGCACAGGTCCAGGACCAAGGAGAGGTGGAACATCCAGTTCTTAAAGTTGCT
TCTCCTACCCCTATCCCATCCCTGTACGCATCTGGAAGCTAAATTGCCTCCTGCCAGAG
ATGGTTTCCAAGTTGATGTCCCTTCCCCCACCTTCTCCTCACTCTCTACCTCCCTGCC
GCTTTCCAACCAAGTATGTCTGCTTTGGTATCTTTGCCTCTCTTTGTCTCTGCATTTCT
TTCCTGGATCTCTGTCTTTATTTCCAGGCTTCTCCACCCATATTCTCCACAGATCTCTC
TTCCTTGACATTTGTGCTTTTCTCCCTGGGCCTCATTTTAATGTTTCAAGTGAAGTAAAC
AGAGCAGAAGTGACCACTGGGACTTCAGGCAAGAAGCTCACAC CAGGCACACAGCAAAG
GGACTGAACTGACCCCTGTTTGCACTAAGCCACCCCCACCCCCCACTCTGCTTTCCAAG
CTTGACTGGCATATACCTAGGCCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTGCTCTTCCGTCTAAGGCATGAATAAGAGGGGAGGTCAAAATAAAGACCCAATCTGAGG
CCGGGCACGGTGGCTCACGCCGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATC
ACGAGGTGAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCATTTCCACTAAAA
ATACAAAAAATTAGCTGGGCGTGGTGGCGAGCGCCTGTAGTCCCAGCTACTCGGGAGGCT
GAGGCAGGAGAATGGCATGAACCTGGAAGGCGGAGCTTGCAAGTGAGCTGAGATTGCGCCA

FIGURE 1 (CONT'D)

CTGCACTCCAGCCTGGGCGACGGAGCGAGACTCTGTCTCAAAACAAACAAACAAACAAAA
GACCCAATCTGAGTCTTATCGTTGTACTGATAGAAGGGTCAGATATCCCCACATGGAGTT
GAGTGGGAGAAAGAGATTCACTAGAGAATAACTCCTTAGAGACCAATGTCTGTAGCAGGT
GTACAGCATCTTGTGAAAGTTATGGAGCATGAAAAGACTGAAGGGCCAGGACAGTTTGCA
TGGGCTGAGTTATACCAGCTAGACCAGGAATAGAACAAGAATTCTATACCTCAGGATTT
CAAAAAGTTAGCAACTTGAGAGGCCAGTGCTGAGCAACCCAGTACCCAGG

Gene 207. >ENST00000318330 cDNA sequence

CGGTCACAGCAGCTCAGTCTTCAAAGCTGCTGGACCCAGGGAGAGCTGACCACTGCCC
GAGCAGCCGGCTGAATCCACCTCCACAATGCCGCTCTCAGGAACCCCGGCCCTAATAAG
AAGAGGAAATCCAGCAAGCTGATCATGGAACCTCACTGGAGGTGGACAGGAGAGCTCAGGC
TTGAACCTGGGCAAAAAGATCAGTGTCCCAAGGGATGTGATGTTGGAGGAACTGTCGCTG
CTTACCAACCGGGGCTCCAAGATGTTCAAACCTGCGGCAGATGAGGGTGGAGAAGTTTATT
TATGAGAACCACCTGATGTTTTCTCTGACAGCTCAATGGATATTATATCTTTAGTCCCT
GGCTCTTGCAATTTCCCTAGTGTAGGGGCGTGGGATTACCTTTCATTGGCTACTAAATGC
TATTATTTGACTGAATTTTCTCTCCCATGGCTACCAGGAGACCAGGCAGGCGGAGAAGGA
AAACATATCACTGTGTTCAAGACCTATATTTCCCATGGGAGCGAGCCATGGGGGTTGAC
CCCCAGCAAAAATGGAACCTTGGCATTGACCTGCTGGCCTATGGGGCCAAAGCTGAACTT
CCCAAATATAAGTCCTTCAACAGGACGGCAATGCCCTATGGTGGATATGAGAAGGCCTCC
AAACGCATGACCTTCCAGATGCCCAAGTTTGACCTGGGGCCCTTGCTGAGTGAACCCCTG
GTCCTCTACAACCAAAACCTCTCCAACAGGCCTTCTTTCAATCGAACCCCTATTCCCTGG
CTGAGCTCTGGGGAGCCTGTAGACTACAACGTGGATATTGGCATCCCCCTTGATGGAGAA
ACAGAGGAGCTGTGAGGTGTTTTCTCCTCTGATTTGCATCATTTCCCTCTCTGGCTCCA
ATTTGGAGAGGGAATGCTGAGCAGATAGCCCCATTGTTAATCCAGTATCCTTATGGGAA
TGGAGGGAAAAAGGAGAGATCTACCTTTCCATCCTTTACTCCAAGTCCCCACTCCACGCA
TCCTTCTCACCACCTCAGAGCTCCCCTTCTACTTGCTCCATATGGAACCTGCTCGTTTA
TGGAAATTTGCTCTGCCACCAGTAACAGTCAATAAACTTCAAGGAAAATGA

Gene 208. >ENST00000332382 cDNA sequence

CCTAAGTGCTTCTTTGGATCTCAGGCTCTAGGTGCAATGTGAAGGGGAGTCCCTGGGCAG
ACTGATCCCTGGCTCAGACAGTTTCACTGGGAGAATCCCAAAGGCCTTTTCCCTCCTTCT
GAGCCTCCGGGCAAGGAGGGAGGGATCTTGGTTCCAGGGTCTCAGTACCCCTGTGCCAT
TTGAGCTGCTTGCCTCATCATCTCTATTAATAACCAACTTCCCTCCCCCACTGCCAGTG
CTGCCCCCAGCCTGCCAGCTCGTGTCTCCGGTCACAGCAGCTCAGTCCTCCAAAGCT
GCTGGACCCAGGGAGAGCTGACCACTGCCCAGCAGCCGGCTGAATCCACCTCCACAAT
GCCGCTCTCAGGAACCCCGGCCCTAATAAGAAGAGGAAATCCAGCAAGCTGATCATGGA
ACTCACTGGAGGTGGACAGGAGAGCTCAGGCTTGAACCTGGGCAAAAAGATCAGTGTCCC
AAGGGATGTGATGTTGGAGGAACTGTCGCTGCTTACCAACCGGGGCTCCAAGATGTTCAA
ACTGCGGCAGATGAGGGTGGAGAAGTTTATTTATGAGAACCACCCTGATGTTTTCTCTGA
CAGCTCAATGGATCACTTCCAGAAGTTCTTCCAAACAGTGGGGGGACAGCTGGGCACAGC
TGGTCAGGGATTCTCATACAGCAAGAGCAACGGCAGAGGCGGCAGCCAGGCAGGGGGCAG
TGGCTCTGCCGGACAGTATGGCTCTGATCAGCAGCACCATCTGGGCTCTGGGTCTGGAGC
TGGGGGTACAGGTGGTCCCGCGGGCCAGGCTGGCAGAGGAGGAGCTGCTGGCACAGCAGG
GGTTGGAGACCAGGCAGGCGGAGAAGGAAAACATATCACTGTGTTCAAGACCTATATTTTC
CCCATGGGAGCGAGCCATGGGGGTTGACCCCCAGCAAAAATGGAACCTTGGCATTGACCT
GCTGGCCTATGGGGCCAAAGCTGAACTTCCCAAATATAAGTCCTTCAACAGGACGGCAAT
GCCCTATGGTGGATATGAGAAGGCCTCCAAACGCATGACCTTCCAGATGCCCAAGTTTGA
CCTGGGGCCCTTGCTGAGTGAACCCCTGGTCTCTACAACCAAAACCTCTCCAACAGGCC
TTCTTTCAATCGAACCCCTATTCCCTGGCTGAGCTCTGGGGAGCCTGTAGACTACAACGT
GGATATTGGCATCCCCCTTGATGGAGAAACAGAGGAGCTGTGAGGTGTTTCTCCTCTGA
TTTGCATCATTTCCCTCTCTGGCTCCAATTTGGAGAGGGAATGCTGAGCAGATAGCCCC
CATTTGTTAATCCAGTATCCTTATGGGAATGGAGGGAAAAAGGAGAGATCTACCTTTCCAT
CCTTTACTCCAAGTCCCCACTCCACGCATCCTTCTCACCACCTCAGAGCTCCCCTTCTA
CTTGCTCCATATGGAACCTGCTCGTTTATGGAATTTGCTCTGCCACCAGTAACAGTCAAT
AAACTTCAAGGAAAATG

Gene 209. >ENST00000313455 cDNA sequence

FIGURE 1 (CONT'D)

ATGCTGAGGATCTTTTACACGTTTCACGGCCACTTGGATTTCTTCTGAGGAAATTATCA
CTGTTTCAGGAGGAGAGTTACTTCAGGAACCTTGCAGGACAGAGGGACAGCCCACCAGACT
ACCATCTGTTGTTTGAATAATTTTTTTCCTTATCAATTGGATTCATTTTGGTATCCTGTT
TTTGAAGTCAAGCTTAAGAACTTCTCATCTCAAATCCTATGGCCTTCTGGAAGATCCACCA
CTATCCAAAGGAAAAAGTAGATTAAATATGCCTCAAGGGATATGACATCTATGGCATAGGG
CTACTGGTCTCATCCCAGCGATCGGGACAGAAATTGCTAATAGCTCATGCAACTCTTTCA
TGA

Gene 210. >ENST00000332968 cDNA sequence

ATGGTTCGCTATTCACTTGACCCGGAGAACCCACAAAATCATGCAAATCAAGAGGTTCC
AATCTTCGTGTTCACTTTAAGAACTCGTGAAACTGCTCAGGCCATCAAGGGTATGTAT
ATACAAAAGGCACGAAGTATCTGAAAGATGTCACTTTACAGAAACAGTGCATACCATT
CGACATTACAATGGTGGAGTTGGCAGGTGTGCGCAGGCAAAGCACCTGTTTGGGCCACAA
GGTTCGGTGGCCCAAAAAGAGTGCTGAATTTTTGCTGCACGTGCTTAAAAACACAGAGAGT
AATGCTGAACTTAAGGGTGATTCTCTGGTCATTGAGCATATCCAAGTGAAACAAAGCACCT
AAGATGCACCAACGGACTTACAGAGCTCATGGAAACCCATACATGAGCTCTTCTGCCAC
ATTGAGATGATCTTTACTGAAAAGGAACAGATTGTTCTTAAACCAGAAGAGGAGGTTGCC
CAGAAGAAAAAGATATCCAGAAGAACTGAAGAAACAAAAAATTATGGCACGGGAATAA

Gene 211. >ENST00000263556 cDNA sequence

ATGATCTGGTATATATTAATTATAGGAATTCTGCTTCCCCAGTCTTTGGCTCATCCAGGC
TTTTTTACTTCAATTGGTCAGATGACTGATTTGATCCATACTGAGAAAGATCTGGTGACT
TCTCTGAAAGATTATATTAAGGCAGAAGAGGACAAGTTAGAACAAATAAAAAAATGGGCA
GAGAAGTTAGATCGGCTAACTAGTACAGCGACAAAAGATCCAGAAGGATTTGTTGGGCAT
CCAGTAAATGCATTCAAATTAATGAAACGTCTGAATACTGAGTGGAGTGAGTTGGAGAAT
CTGGTCCTTAAGGATATGTGAGATGGCTTTATCTCTAACCTAACCATTCAGAGACAGTAC
TTTCCTAATGATGAAGATCAGGTTGGGGCAGCCAAAGCTCTGTTACGTCTCCAGGATACC
TACAATTTGGATACAGATACCATCTCAAAGGGTAATCTTCCAGGAGTGAAACACAAATCT
TTTCTAACGGCTGAGGACTGCTTTGAGTTGGGCAAAGTGGCCTATACAGAAGCAGATTAT
TACCATACGGAACGTGTGGATGGAACAAGCCCTAAGGCAACTGGATGAAGGCGAGATTTCT
ACCATAGATAAAGTCTCTGTTCTAGATTATTTGAGCTATGCGGTATATCAGCAGGGAGAC
CTGGATAAGGCATTTTTGCTCACAAGAAGCTTCTTGAAGTAGATCCTGAACATCAGAGA
GCTAATGGTAACTTAAATATTTTGTAGTATATAATGGCTAAAGAAAAAGATGTCAATAAG
TCTGCTTCAGATGACCAATCTGATCAGAAAACTACACCAAAGAAAAAGGGGTTGCTGTG
GATTACCTGCCAGAGAGACAGAAGTACGAAATGCTGTGCCGTGGGGAGGGTATCAAAATG
ACCCCTCGGAGACAGAAAAAACTCTTTTGCCGCTACCATGATGGAAACCGTAATCCTAAA
TTTATTCTGGCTCCAGCTAAACAGGAGGATGAATGGGACAAGCCTCGTATTATTGCTTCT
CATGATATTATTTCTGATGCAGAAATTGAAATCGTCAAAGACCTAGCAAAACCAAGGCTG
AGCCGAGCTACAGTACATGACCCTGAGACTGGAAAATTGACCAACAGCACAGTACAGAGTA
TCTAAGAGTGCCTGGCTCTCTGGCTATGAAAATCCTGTGGTGTCTCGAATTAATATGAGA
ATACAAGATCTAACAGGACTAGATGTTTCCACAGCAGAGGAATTACAGGTAGCAAATTAT
GGAGTTGGAGGACAGTATGAACCCATTTTGAATTTGCACGGAAAGATGAGCCAGATGCT
TTCAAAGAGCTGGGGACAGGAAATAGAATTGCTACATGGCTGTTTTATATGAGTGATGTG
TCTGCAGGAGGAGCCACTGTTTTTCTGAAGTTGGAGCTAGTGTTTGGCCCAAAAAGGA
ACTGCTGTTTTCTGGTATAATCTGTTTGCCAGTGGAGAAGGAGATTATAGTACACGGCAT
GCAGCCTGTCCAGTGCTAGTTGGCAACAAATGGGTATCCAATAAATGGCTCCATGAACGT
GGACAAGAATTTGGAAGACCTTGTACGTTGTGAGAATTGGAATGA

Gene 212. >ENST00000307116 cDNA sequence

ATGATCTGGTATATATTAATTATAGGAATTCTGCTTCCCCAGTCTTTGGCTCATCCAGGC
TTTTTTACTTCAATTGGTCAGATGACTGATTTGATCCATACTGAGAAAGATCTGGTGACT
TCTCTGAAAGATTATATTAAGGCAGAAGAGGACAAGTTAGAACAAATAAAAAAATGGGCA
GAGAAGTTAGATCGGCTAACTAGTACAGCGACAAAAGATCCAGAAGGATTTGTTGGGCAT
CCAGTAAATGCATTCAAATTAATGAAACGTCTGAATACTGAGTGGAGTGAGTTGGAGAAT
CTGGTCCTTAAGGATATGTGAGATGGCTTTATCTCTAACCTAACCATTCAGAGACAGTAC
TTTCCTAATGATGAAGATCAGGTTGGGGCAGCCAAAGCTCTGTTACGTCTCCAGGATACC
TACAATTTGGATACAGATACCATCTCAAAGGGTAATCTTCCAGGAGTGAAACACAAATCT

FIGURE 1 (CONT'D)

TTTCTAACGGCTGAGGACTGCTTTGAGTTGGGCAAAGTGGCCTATACAGAAGCAGATTAT
TACCATACGGAACTGTGGATGGAACAAGCCCTAAGGCAACTGGATGAAGGCGAGATTTCT
ACCATAGATAAAGTCTCTGTTCTAGATTATTTGAGCTATGCGGTATATCAGCAGGGAGAC
CTGGATAAGGCACCTTTTGCTCACAAAGAAGCTTCTTGAAGTAGATCCTGAACATCAGAGA
GCTAATGGTAACTTAAATATTTTGAGTATATAATGGCTAAAGAAAAAGATGTCAATAAG
TCTGCTTCAGATGACCAATCTGATCAGAAAACACACCAAAGAAAAAGGGGTGCTGTG
GATTACCTGCCAGAGAGACAGAAGTACGAAATGCTGTGCCGTGGGGAGGGTATCAAAATG
ACCCCTCGGAGACAGAAAAAATCTTTTGCCGCTACCATGATGGAAACCGTAATCCTAAA
TTTATTCTGGCTCCAGCTAAACAGGAGGATGAATGGGACAAGCCTCGTATTATTCGCTTC
CATGATATTATTTCTGATGCAGAAATTGAAATCGTCAAAGACCTAGCAAAACCAAGGCTG
AGGCGAGCCACCATTTCAAACCCAATAACAGGAGACTTGGAGACGGTACATTACAGAATT
AGCAAAAGTGCCTGGCTCTCTGGCTATGAAATCCTGTGGTGTCTCGAATTAATATGAGA
ATACAAGATCTAACAGGACTAGATGTTTCCAAGCAGAGAGGAATTACAGGTAGCAAAATTAT
GGAGTTGGAGGACAGTATGAACCCATTTTGACTTTGCACGGAAAGATGAGCCAGATGCT
TTCAAAGAGCTGGGGACAGGAAATAGAATTGCTACATGGCTGTTTTATATGAGTGATGTG
TCTGCAGGAGGAGCCACTGTTTTTCTGAAGTTGGAGCTAGTGTGGCCCAAAAAGGA
ACTGCTGTTTTCTGGTATAATCTGTTTGCCAGTGGAGAAGGAGATTATAGTACACGGCAT
GCAGCCTGTCCAGTGCTAGTTGGCAACAAATGGGTATCCAATAAATGGCTCCATGAACGT
GGACAAGAATTTTGAAGACCTTGTACGTTGTCAGAATTGGAATGA

Gene 213. >ENST0000317358 cDNA sequence

AGACAGTCACAGTTCGCTGGAGAGAAACAAAGCCAACTGTTGTAGGGGTGGATACTCACAT
GGAACCTTGATGAAGTTCATTGCTGCCCTGGAAGAGATTGCGGAGGAGGCTTCATCAAAGG
TCCCATGCTCCAGGGACTCCAGGGTGAGGGTAAACTGGCCCAATCCCAAAACCCACTCT
TCCCTCTCCCTCTCGCCTCACCTGTTTCGTATCTAGTTCTCAAATGGAAGACCATGGGTT
TCCAGCCAGGAGAAATGGATTGACCCAAGCAAGCTTCATCTACCAGATGCCCGCAGGCTG
GGGCAGTCCCGGCGGCCTCTTCTCCCTTGCCAGCCAGTGCCAACCCCGTGGTTCTCAA
GCCTCCGCTGCCACCCTGTCCCATTTCTGGGGAGAGTCTGGCCCTGCTGTGGATGGAAT
CCGGAGGACCCAGCTCCCTGAGCAGCCCCCTCTCTCCCTGGTGCTGATCAGAGGTCCT
TGGGCAGCATCAGTCAAAGCAAGAGCGCACTCACTTTGGAGTCGCTCACGACCAGGACGC
AGAGAAGCAGGCGCGCCAGCAGGGCTCTCATGGTGGCGAGGTGCGGGCGCTAGACGGCGG
CTCTGCAAAGGAAGGAGAAGTCAAGGCAAGAGGCGGAGGAACGGGAAGGCAGGCCAGGCG
GGCGACTGCAGCGCAGGGGAGATGCCCCGGGTGACCAGGCTCCCCAGCTGTCTCTCTCT
CTCTGGGCTCCGGAATCCGGGCAGCCTGGATCGGCACCCGCGGGGGACGCCCGGGACGGG
GCGCCTTGACTCCGTGCAGCCGCCGGGGAGCCAGGGAGCCCGGGCAGCCAGGGCGGGG
GAGGCAGACGCTCGGGAGCTGGGGCCGCCGCGCATCCGGCCCGGGGATCTCAGGACCGCG
GCACTCACCGGTGGCTGCGGCAGGAGGGCGCGAGCCGGCGCTGCGGGGACAGGTGGACCC
TGGCCCGGGCTCCGGGGCTGCGGTCTCCGCACTGTGCTGCGACCCGCGGCGCCTGCTCTA
TATCAGGGCCCGCCCGGCGCCGCCCTCCCTCTCCCGCCGGCTCCCTCCCTGTCTTG
CAGCGCTCAGCGACCCGGACCCCGGTGCTTCCGCAACGCTCACAAGATTGGGGGAAG
CGCGATCTCAGCGGAGGGGACCAACAGCGTCTGGACTGAGGAATCGAGAGGCTTGTA
ATTCTCCGTGCTTCTCCCATGCACCTGGCCGGGGCCCTGCCCCAGTGCAAGGAGTCCCC
GAATTGCAGAGAGGAGAGAAGGCGCACAGGAGACTCTCTACCTCGCCAGCTCTGAAGCC
TCCTGGGGTCTCTAATCAGTTCTTCTGCAACTTCTCCCGCTGGGCCCAACTTGCCCTA
AGACTGCCTCAGACCCCTTGCCCGCAGCTGATGGAGCTGTGAAGTCTTCATCAACGCGA
CAAATGTACGAGACATACTCTCCAGAAGCAAGACAGAAAAACCCCTGCCTGTAGGGG
TCCCTCTGTGCGTCTGTTCAAGTGGCAGTCCCCAGATATCACCAACACAACCAAGTGGATGG
AACAAAGCCGGGCTTATTGCTTTCCGCGAGTAAGGGGGTTTGTGTTGATGGTGCTATCAGAG
GGGGAAGGCAAGGCCAGATTACTGAAAATTTGCAGCTTGGTTTTAAAGTCCGTTTTTGAC
AGGGCTTGATAAGGATTGGGTAGGTGTCGTGATATGATGTTACAGGATTGTGGGAACAA
AGTCTAGGGCATAACTGTTGGTGCTTCTTATTGAAGTGTTAACGGGTCTTTTGGGAAG
TTTCATAATGAGCAATTCAATTTATTTGTGCAGGCAAGAATAAAGTAAAGACAATGGAA
ACATGTAGACAGTTCTAACTGTGGAGGTTCTGGAGGGTGTGGAAGTTCTGTTCTCACCTC
TGAGTAGAGGAATTGGGAGACTGGAGGACAAAATAAGAGGAAGATTTATTTTCACTGTT
TGTCCTTTTACACTCTTAACATTTTAAAAGCACATCTCTGTATAGCCATTCCAAAAAG

FIGURE 1 (CONT'D)

ATAATTATGCATTTTTTAAATGCATGTGTATTTAGTGTTTTACTTCATCATAGAGCCTTGT
TTATTCTATTTCAGATAGAAA CAATTGTTTATCAAATAAAATTGTCCTCCAG
Gene 214. >ENST00000311407 cDNA sequence
ATGGGGAAAAACAGAACAGAAAACTGGAACTCTAAACGCAGAGCGCCTCTCCTCCT
CCAAAGGAACGCAGTTCCTCACCAGCAACGGAACAAAGCTGGATGGAGAATGACTTTGAC
GAGCTGAGAGAAGAAGGTTTCAGACGATCAAATTA CTCTGAGCTACGGGAGGACATTCAA
ACCAAAGGCAAAGAAGTTGAAAACTTTGAAAAAAATTTAGAAGAATGTATAACTAGAATA
ACCAATACAGAGAAGTGCTTAAAGGAGCTGATGGAGCTGAAAA CCAAGGCTCGAGAACTA
CGTGAAGAATGCAGAAGCCTCAGGAGCCGATGCGATCAACTGGAAGAAAGGGTATCAGCA
ATGGAAGATGAAATGAATGAAATGAAGCGAGAAGGGAAGTTTAGAGAAAAAAGAATAAAA
AGAAATGAGCAAAGCCTCCAAGAAATATGGGACTATGTGAAAAGACCAAATCTACGTCTG
ATTGGTGTACCTGAAAGTGATGCGGAGAATGGAACCAAGTTGGAACA CTCTGCAGGAT
ATTATCCAGGAGAACTTCCCCAATCTAGCAAGGCAGGCCAACGTT CAGATTCAGGAAATA
CAGAGAATGCCACAAAGATACTCTCGAGAAGAGCAACTCCAAGACACATAATTGT CAGA
TTCACCAAAGTTGAAATGAAGGAAAAATGTTAAGGGCAGCCAGAGAGAAAGGTCGGGTT
ACCCTCAAAGGGAAGCCCATCAGACTAACAGCGGATCTCTCGGCAGAAACCTACAAGCC
AGAAGAGAGTGGGGGCCAATATTCAACATTCTTAAAGAAAAGAATTTTCAACCCAGAATT
TCATATCCAGCCAACTAAGCTTCATAAGTGAAGGAGAAATAAAATACTTTACAGACAAG
CAAATGCTGAGAGATTTTGTCAACCACAGGCCTGCCCTAAAAGAGCTCCTGAAGGAAGCG
CTAAACATGGAAAGGAACAACCGGTACCAGCCGCTGCAAAATCATGCTAAAATGTAA
Gene 215. >ENST00000225174 cDNA sequence
GCGCGACGTCAGTTT GAGTTCTGTGTTCTCCCCGCCGTGTCCCGCCCGACCCGCGCCCG
CGATGCTGGCGCTGCGCTGCGGCTCCCGCTGGCTCGGCCTGCTCTCCGTCCCGCGCTCCG
TGCCGCTGCGCCTCCCCGCGGCCCGCGCCTGCAGCAAGGGCTCCGGCGACCCGTCCTCTT
CCTCCTCCTCCGGGAACCCGCTCGTGTA CCTGGACGTGGACGCCAACGGGAAGCCGCTCG
GCCGCGTGGTGCTGGAGCTGAAGGCAGATGTCTGTC CCAAAGACAGCTGAGAACTTCAGAG
CCCTGTGCACTGGTGAGAAGGGCTTCGGCTACAAAGGCTCCACCTTCCACAGGGTGATCC
CTTCCTTCATGTGCCAGGCGGGCGACTTCACCAACCACAATGGCA CAGGCGGGAAGTCCA
TCTACGGAAGCCGCTTTCTGACGAGAACTTTACACTGAAGCACGTGGGGCCAGGTGTCC
TGTCCATGGCTAATGTCTGGTCTTAACACCAACGGCTCCCAGTTCTTCATCTGCACCATAA
AGACAGACTGGTTGGATGGCAAGCATGTTGTGTTCTGGTCACGTCAAAGAGGGCATGGACG
TCGTGAAGAAAATAGAATCTTTCTGGCTCTAAGAGTGGGAGGACAT CCAAGAAGATTGTCA
TCACAGACTGTGGCCAGTTGAGCTAATCTGTGGCCAGGGTGCTGGCATGGTGGCAGCTGC
AAATGTCCATGCACCCAGGTGGCCGCGTTGGGCTGTGAGCCAAGGTGCCTGAAACGATAC
GTGTGCCCACTCCACTGTCAAGTGTGCCTGAGGAAGGCTGCTAGGGATGTTAGACCTCG
GCCAGGACCCACCACATTGCTTCCTAATACCCACCCTTCTCTACGACCTCATTTCTGGGC
ATCTTTGTGGACATGATGTCAACCCACCCCTTGTCAAGCATTGCCTGTGATTGCCAGCCC
AGATTTCATCTGTGCCTTGGACATGGTGATGGTGATGGGTTGCCAT CCAAGTGAAAGTCTT
TTCCTTGACCAAGGGGGACAGTCAGTTTTGCAAAAGGACTCTAATACCTGTTTAATATTG
TCTTCCTAATTGGGATAATTTAATTAACAAGATTGACTAGAAGTGAAACTGCAACACTAA
CTTCCCCGTGCTGTGGTGTGACCTGAGTTGGTGACACAGGCCACAGACCCAGAGCTTGG
CTTTTGAAACACA ACTCAGGGCTTTTGTGAAGGTTCCCCCGCTGAGATCTTTCTCCTGG
TTACTGTGAAGCCTGTTGGTTTGTCTGTGCTGTTTTTGGAGAGGGCCCATGGGGGTAGGA
GCAGTTGAACCTGGGAACAAACCTCACTTGAGCTGTGCCTAGACAATGTGAATTCCTGTG
TTGCTAACAGAAGTGGCCTGTAAGCTCCTGTGCTCCGGAGGGAAGCATTTCTGGTAGGC
TTTGATTTTTCTGTGTGTTAAAGAAATTCAATCTACTCATGATGTGTTATGCATAAAACA
TTTCTGGAAATGGAATTTGTGTTACCTTAAATGTGAAAATAAATCCTATTTTCTATGGA
AGACTGGTACCTGGTTTCTGGAAGAGGGGCTGTGTGACTTGAGAGCTGATCTTTACTGAGCT
CGCCGTGGCAGATGCCATGCTCAGGACGTT CATGTGGATGGTTTCATGTGCATCGTGCTGG
CAACTTGTCTCCCTGCCTTAGAGATGAGGCTCAGACAAACGACCTTAGCACCCATAGCC
TATGCCATGAGCACTGGCTCCACCCTGAATCCAGCTCCTCCCCCTTAGTGACCCCAAGTC
TGTTTCCCTCAGCTGCATAAGGAGGCGATATAGTTTGAATATTTGTCCCCAGCCAAATCT
CATGTTGAACTGTAATCCCAGTGCTGGAGGTGGGGCCTGCTACGAGGTGTTTGATCAT
GGGGACGGGTATTT CATGGCTTGGTGCTGTTTTCTTGATGGTGAAATTATTGCAAGATACG

FIGURE 1 (CONT'D)

GTCATTTAAAATTGTGTGGCACCTCCCCCTGCCCCCTTCTTGCTCCTGCTTTCACCATGT
GACATGCCTGATCCCCCTTACCTTTTGCCATGGTCATAAGCTTCCTGAGGCCTCCCTGG
AAGCTGAGCAGATGCCAGCACCATGCTTCCTGTACATCCTGCAGAACCATAAGCCAATTA
AACCTTTTT

Gene 216. >ENST00000241878 cDNA sequence

ATGGCTATAGATTGTGGTTTGGACACTCCTGGCTGCCCACTGCAGCTCTGGGGCAATGTCA
GTGTTTACGTTTCCTTCCTCAACTTGGCGGCAACAGAGGAAAGGACCTTAGTAGTGGTTGT
GGTCAAGGGTCTTTTGCTTGTATCCTGGGAGCTCCACACCAGAGAGATGTAGGTGAGCAA
TTCCTCAGTGCAATCACCCCAGGATGA

Gene 217. >ENST00000242464 cDNA sequence

CAGCCCCGAGCCCCGGGCCAGGGTCCACCTGTCCCCGAGCGCCGGCTCGCGCCCTCCTG
CCGCAGCCACCGAGCGCCGTCTAGCGCCCCGACCTCGCCACCATGAGAGCCCTGCTGGC
GCGCCTGCTTCTCTGCGTCTGGTCTGTGAGCGACTCCAAAGGCAGCAATGAACTTCATCA
AGTTCCATCGAACTGTGACTGTCTAAATGGAGGAACATGTGTGTCCAAAGTACTTCTC
CAACATTCCTGCTGCACTGCCAAAGAAATTTCGGAGGGCAGCACTGTGAAATAGATAA
GTCAAAAACCTGCTATGAGGGGAATGGTCACTTTTACCGAGGAAAGGCCAGCACTGACAC
CATGGGCCCGCCCTGCCTGCCCTGGAACCTTGCCACTGTCTTCAGCAAACGTACCATGC
CCACAGATCTGATGCTCTTCAGCTGGGCCTGGGGAAACATAATTACTGCAGGAACCCAGA
CAACCGGAGGCGACCTGGTGTCTATGTGCAGGTGGGCCTAAAGCTGCTTGTCCAAGAGTG
CATGGTGCATGACTGCGCAGATGGAAAAAGCCCTCCTCTCCTCCAGAAGAATTAATAATT
TCAGTGTGGCCAAAAGACTCTGAGGCCCCGCTTTAAGATTATTGGGGGAGAATTCAACAC
CATCGAGAACCAGCCCTGGTTTTCGGCCATCTACAGGAGGCACCGGGGGGGCTCTGTAC
CTACGTGTGTGGAGGCAGCCTCATCAGCCCTTGTCTGGGTGATCAGCGCCACACACTGCTT
CATTGATTACCCAAAGAAGGAGGACTACATCGTCTACCTGGGTGCTCAAGGCTTAACTC
CAACACGCAAGGGGAGATGAAGTTTGAGGTGGAAAACCTCATCTACACAAGGACTACAG
CGCTGACACGCTTGCTCACCACAACGACATTGCCTTGCTGAAGATCCGTTCCAAGGAGGG
CAGGTGTGCGCAGCCATCCCGGACTATACAGACCATCTGCCTGCCCTCGATGTATAACGA
TCCCCAGTTTGGCACAAGCTGTGAGATCACTGGCTTTGGAAAAGAGAATTCTACCGACTA
TCTCTATCCGGAGCAGCTGAAAATGACTGTTGTGAAGCTGATTTCCACCGGGAGTGTCA
GCAGCCCCACTACTACGGCTCTGAAGTCACCACCAAAATGCTGTGTGCTGCTGACCCACA
GTGGAAAACAGATTCTGCGCAGGGAGACTCAGGGGGACCCCTCGTCTGTTCCCTCCAAGG
CCGCATGACTTTGACTGGAATTGTGAGCTGGGGCCGTGGATGTGCCCTGAAGGACAAGCC
AGGCGTCTACACGAGAGTCTCACACTTCTTACCCTGGATCCGAGTCACACCAAGGAAGA
GAATGGCCTGGCCCTCTGAGGGTCCCCAGGGAGGAAACGGGCACCAACCCGCTTTCTTGCT
GGTTGTCAATTTTTCAGTAGAGTCATCTCCATCAGCTGTAAGAAGAGACTGGGAAGATAG
GCTCTGCACAGATGGATTTGCCTGTGCCACCCACAGGGCGAACGACAATAGCTTTACCC
TCAGGCATAGGCCTGGGTGCTGGCTGCCAGACCCCTCTGGCCAGGATGGAGGGGTGGTC
CTGACTCAACATGTTACTGACCAGCAACTTGTCTTTTCTGGAAGTGAAGCCTGCAGGAGT
TAAAAGGGCAGGGCATCTCCTGTGCATGGGTGAAGGGAGAGCCAGCTCCCCGACGGTG
GGCATTTGTGAGGCCCATGGTTGAGAAATGAATAATTTCCCAATTAGGAAGTGTAACAGC
TGAGGTCTCTTGAGGGAGCTTAGCCAATGTGGGAGCAGCGTTTGGGGAGCAGAGACACT
AACGACTTCAGGGCAGGGCTCTGATATTCATGAATGTATCAGGAAATATATATGTGTGT
GTATGTTTGCACACTTGTGTGTGGGCTGTGAGTGTAAAGTGTGAGTAAGAGCTGGTGTCTG
ATTGTTAAGTCTAAATATTTCTTAAACTGTGTGGACTGTGATGCCACACAGAGTGGTCT
TTCTGGAGAGGTTATAGGTCACTCCTGGGGCCTCTTGGGTCCCCACGTGACAGTGCCTG
GGAATGTATTATTCTGCAGCATGACCTGTGACCAGCACTGTCTCAGTTTCACTTTCACAT
AGATGTCCCTTTCTTGCCAGTTATCCCTTCCTTTTAGCCTAGTTCATCCAATCCTCACT
GGGTGGGGTGAGGACCACTCCTGTACACTGAATATTTATATTTCACTATTTTATTTATA
TTTTTGTAAATTTTAAATAAAAGTGATCAATAAAATGTGATTTTCTGATG

Gene 218. >ENST00000211998 cDNA sequence

GCACAGTCTGTCTCTTCGCCGGTTCCCGCCCCGTGGATCCTACTTCTCTGTGCCCCGCG
GTTCCGCCGCCCGCTCGCCGCCCGCATGCCAGTGTTCATACGCGCACGATCGAGAGCAT
CCTGGAGCCGGTGGCACAGCAGATCTCCACCTGGTGATAATGCACGAGGAGGGCGAGGT
GGACGGCAAAGCCATTCTGACCTCACCGCGCCCGTGGCCGCCGTGCAGGCGGCCGTGAC

FIGURE 1 (CONT'D)

CAACCTCGTCCGGGTTGGAAAAGAGACTGTTCAAACCACTGAGGATCAGATTTTGAAGAG
AGATATGCCACCAGCATTATTATAAGGTTGAGAATGCTTGACCAAGCTTGTCCAGGCAGC
TCAGATGCTTCAGTCAGACCCTTACTCAGTGCCTGCTCGAGATTATCTAATTGATGGGTC
AAGGGGCATCCTCTCTGGAACATCAGACCTGCTCCTTACCTTCGATGAGGCTGAGGTCCG
TAAAATTATTAGAGTTTGC AAAGGAATTTTGG AATATCTTACAGTGGCAGAGGTGGTGA
GACTATGGAAGATTTGGTCACTTACACAAAGAATCTTGGGCCAGGAATGACTAAGATGGC
CAAGATGATTGACGAGAGACAGCAGGAGCTCACTCACAGGAGCACCGAGTGATGTTGGT
GAACTCGATGAACACCGTGAAAGAGTTGCTGCCAGTTCTCATTTTCAGCTATGAAGATTTT
TGTAACAACATAAAAACTCAAAAAACCAAGGCATAGAGGAAGCTTTAAAAAATCGCAATTT
TACTGTAGAAAAAATGAGTGCTGAAATTAATGAGATAATTCTGTGTGTACAACCTCACCTC
TTGGGATGAAGATGCCTGGGCCAGCAAGGACACTGAAGCCATGAAGAGAGCATTGGCCTC
CATAGACTCCAACTGAACCAGGCCAAAGGTTGGCTCCGTGACCCTAGTGCTCCCCAGG
GGATGCTGGTGAGCAGGCCATCAGACAGATCTTAGATGAAGCTGGAAAAGTTGGTGAAC
CTGTGCAGGCAAAGAACGCAGGGAGATTCTGGGAACCTGCAAAATGCTAGGGCAGATGAC
TGATCAAGTGGCTGACCTCCGTGCCAGAGGACAAGGATCCTCACCGGTGGCCATGCAGAA
AGCTCAGCAGGTATCTCAGGGTCTGGATGTGCTCACAGCAAAAGTGGAAAATGCAGCTCG
CAAGCTGGAAGCCATGACCAACTCAAAGCAGAGCATTGCAAGAAGATCGATGCTGCTCA
GAACTGGCTTGAGATCCAAATGGTGGACCGGAAGGAGAAGAGCAGATTGAGGTGCTTT
GGCTGAAGCTCGGAAAATAGCAGAATTATGTGATGATCCTAAAGAAAGAGATGACATTCT
ACGTTCCCTTGGGGAAATATCTGCTCTGACTTCTAAATTAGCAGATCTACGAAGACAGGG
GAAAGGAGATTCTCCAGAGGCTCGAGCCTTGGCCAAACAGGTGGCCACGGCCCTGCAGAA
CCTGCAGACCAAAACCAACCGGGCTGTGGCCAACAGCAGACCGGCCAAAGCAGCTGTACA
CCTTGAGGGCAAGATTGAGCAAGCACAGCGGTGGATTGATAATCCACAGTGGATGACCG
TGGAGTCGGTCAGGCTGCCATCCGGGGGCTTGTGGCCGAAGGGCATCGTCTGGCTAATGT
TATGATGGGGCCTTATCGGCAAGATCTTCTCGCCAAGTGTGACCGAGTGGACCAGCTGAC
AGCCAGCTGGCTGACCTGGCTGCCAGAGGGGAAGGGGAGAGTCCTCAGGCCAGAGCACT
TGATCTCAGCTCCAAGACTCCTTAAAGGATCTAAAAGCTCGGATGCAGGAGGCCATGAC
TCAGGAAGTGTGAGATGTTTTAGCGATACCACAACTCCCATCAAGCTGTTGGCAGTGGC
AGCCACGGCGCCTCCTGATGCGCCTAACAGGGAAGAGGTATTTGATGAGAGGGCAGCTAA
CTTTGAAAACCATTCAGGAAAGCTTGGTGCTACGGCCGAGAAGGCGGCTGCGGTTGGTAC
TGCTAATAAATCAACAGTGAAGGCATTGAGGCTCAGTGAAGACGGCCCGAGAACTCAC
ACCCAGGTGGTCTCGGCTGCTCGTATCTTACTTAGGAACCTTGAAATCAAGCTGCTTA
TGAACATTTTGAAGCATGAAGAACAGTGGATCGATAATGTTGAAAAAATGACAGGGCT
GGTGGACGAAGCCATTGATACCAAATCTCTGTTGGATGCTTCAGAAGAAGCAATTAAAAA
AGACCTGGACAAGTGCAAGGTAGCTATGGCCAACATTGAGCCTCAGATGCTGGTTGCTGG
GGCAACCAGTATTGCTCGTGGGCCAACCGGATCCTGCTGGTGGCTAAGAGGGAGGTGGA
GAATTCCGAGGATCCCAAGTTCCGTGAGGCTGTGAAAGCTGCCTCTGATGAATTGAGCAA
AACCATCTCCCCGATGGTGATGGATGCAAAAGCTGTGGCTGGAAACATTTCCGACCCTGG
ACTGCAAAAGAGCTTCTTGACTCAGGATATCGGATCCTGGGAGCTGTGGCCAAGGTGAG
AGAAGCCTTCCAACCTCAGGAGCCTGACTTCCCGCCGCTCCACCAGACCTTGAACAACT
CCGACTAACAGATGAGCTTGCTCCTCCCAAAACCACTCTGCCTGAAGGTGAGGTCCCTCC
ACCTAGGCCTCCACCACAGAGGAAAAGGATGAAGAGTTCCCTGAGCAGAAGGCCGGGGA
GGTGATTAAACAGCCAATGATGATGGCTGCCAGACAGCTCCATGATGAAGCTCGCAAATG
GTCCAGCAAGCCGGGCATCCAGCCGCTGAGGTGGGTATAGGTGTTGTAGCTGAGGCAGA
TGCGGCCGATGCTGCTGGCTTCCCTGTCCCCCTGACATGGAAGACGATTACGAACCTGA
GCTGCTGTTAATGCCATCCAATCAGCCGGTCAACCAGCCCATTCTGGCCGCGGCTCAGTC
CTTGATCGGGAAGCTACCAAGTGGTCTAGTAAGGGCAATGACATCATTGCAGCAGCCAA
GCGCATGGCTCTGCTGATGGCTGAGATGTCTCGGCTGGTAAGAGGGGGCAGTGGTACCAA
GCGGGCACTCATTGAGTGTGCCAAGGACATCGCCAAGGCCTCAGATGAGGTGACTCGGTT
GGCCAAGGAGGTTGCCAAGCAGTGCAAGATAAACGGATTAGAACCAACCTCTTACAGGT
ATGTGAGCGAATCCCAACCATAAGCAACAGCTCAAAATCCTGTCCACAGTGAAGGCCAC
CATGCTGGGCCGGACCAACATCAGTGATGAGGAGTCTGAGCAGGCCACAGAGATGCTGGT
TCACAATGCCCAGAACCTCATGCAGTCTGTGAAGGAGACTGTGCGGGAAGCTGAAGCTGC
TTCAATCAAAATTCGAACAGATGCTGGATTTACACTGCGCTGGGTTAGAAAAGACTCCCTG

FIGURE 1 (CONT'D)

GTACCAGTAGGCACCTGGCTGAGCCTGGCTGGCACAGAAACCTCTACTAAAAAGAAGGAA
AATGATCTGAGTCCCAGGAGCTGCCAGAGTTGCTGGGAGCTGAAAAATCACATCCTGGC
CTGGCACATCAGAAAGGAATGGGGCCCTCTTCAAATTAGAAGACATTTATACTCTTTTTT
CATGGACACTTTGAAATGTGTTTCTGTATAAAGCCTGTATTCTCAAACACAGTTACACTT
GTGCACCCTCTATCCCAATAGGCAGACTGGGTTTCTAGCCCATGGACTTCACATAAGCTC
AGAATCCAAGTGAACACTAGCCAGACACTCTGCTCTGCCCTTGTTCCCTAGGGGACACTT
CCCTCTGTTTCTCTTTCTTTGGCTCCATTCACTCTTCAGAATCCAAGACCCAGGGCC
CAGGCAAATCAGTTACTAAGAAGAAAATTGCTGTGCCTCCCAAATTTGTTTTGAGCTTTC
CATGTTGCTGCCAACCATACCTTCCTTCCCTGGGCTGTGCTACCTGGGTCTTTTTCAGAA
GTGAGCTTTGCTGCTACAGGGGAAGGTGGCCTCTGTGGAGCCCAGCATATGGGGGCCTG
GATTCATTTCTGCCCTTCCTCAGTTTAATCCTTCTAGTTTCCCACAATATAAACTGTA
CTTCACTGTGAGGAAGAAATCACAGAATCATATGATTCTGCTTTTACCATGCCCTGAGC
AATGTCTGTGCTAGGGAACTTCCCGTCCCATATCCTGCCTCAGCCGCCAAGGTAGCCA
TCCCATGAACACACTGTGTCTGGTGCTCTCTGCCACTGGAAGGGCAGAGTAGCCAGGGT
GTGGCCCTGCCATCTTCCCAGCAGGGCCACTCCCGCACTCCATGCTTAGTCACTGCCTG
CAGAGGTCTGTGCTGAGGCCTTATCATTCACTCTTAGCTCTTAATTGTTCATTTTGAGCT
GAAATGCTGCATTTTAAATTTTAAACAAAACATGTCTCCTATCCTGGTTTTTGTAGCCTTC
CTCCACATCCTTTCTAAACAAGATTTTAAAGACATGTAGGTGTTTGTTCATCTGTAACCTC
TAAAAGATCCTTTTTTAAATTCAAGTCTAAGAAAGAGGAGTGCTTGTCCCTAAGAGTGTT
TAATGGCAAGGCAGCCCTGTCTGAAGGACACTTCCTGCCTAAGGGAGAGTGGTATTTGCA
GACTAGAATTCTAGTGCTGCTGAAGATGAATCAATGGGAAATACTACTCCTGTAATTCCT
ACCTCCCTGCAACCAACTACAACCAAGCTCTCTGCATCTACTCCCAAGTATGGGGTTCAA
GAGAGTAATGGGTTTCATATTTCTTATCACCACAGTAAGTTCTACTAGGCAAAATGAGA
GGGCAGTGTTTCTTTTTTGGTACTTATTACTGCTAAGTATTTCCAGCACATGAAACCTT
ATTTTTTCCCAAAGCCAGAACAGATGAGTAAAGGAGTAAGAACCTTGCCTGAACATCCT
TCCTTCCCACCCATCGCTGTGTGTTAGTTCCCAACATCGAATGTGTACAACCTTAAGTTGG
TCCTTTACACTCAGGCTTTCACTATTTCTTTTATAATGAGGATGATTATTTTCAAGGCC
TCAGCATATTTGTATAGTTGCTTGCCTGATATAAATGCAATATTAATGCCTTTAAAGTAT
GAATCTATGCCAAAGATCACTTGTTGTTTTACTAAAGAAAGATTACTTAGAGGAAATAAG
AAAAATCATGTTTGCTCTCCCGTTCTTCCAGTGTTTTGAGACACTGGTTTACACTTTAT
GCCGGATGTGCTTTTCTCCAATATCAGTGCTCGAGACACAGTGAAGC

Gene 219. >ENST00000277829 cDNA sequence

GCACAGTCTGTCTCTTCGCCGGTTCCCGGCCCGTGGATCCTACTTCTCTGTGCGCCGCG
GTTTCGCCGCCCGCTCGCCGCCCGCATGCCAGTGTTCATACGCGCACGATCGAGAGCAT
CCTGGAGCCGGTGGCACAGCAGATCTCCACCTGGTGATAATGCACGAGGAGGGCGAGGT
GGACGGCAAAGCCATTCTGACCTCACCGCGCCCGTGGCCGCCGTGCAGGCGGCCGTGAG
CAACCTCGTCCGGGTTGGAAAAGAGACTGTTCAAACCACTGAGGATCAGATTTTGAAGAG
AGATATGCCACCAGCATTTATTAAGGTTGAGAATGCTTGCACCAAGCTTGTCCAGGCAGC
TCAGATGCTTCAGTCAGACCCTTACTCAGTGCTGCTCGAGATTATCTAATTGATGGGTG
AAGGGGCATCCTCTCTGGAACATCAGACCTGCTCCTTACCTTCGATGAGGCTGAGGTCCG
TAAAATTATTAGAGTTTGCAGGAATTTTGGAAATATCTTACAGTGGCAGAGGTGGTGGA
GACTATGGAAGATTTGGTCACTTACACAAAGAATCTTGGGCCAGGAATGACTAAGATGGC
CAAGATGATTGACGAGAGACAGCAGGAGCTCACTCACCAGGAGCACCGAGTGATGTTGGT
GAACTCGATGAACACCGTGAAAGAGTTGCTGCCAGTTCTCATTTTCACTATGAAGATTTT
TGTAACAACATAAACTCAAAAAACCAAGGCATAGAGGAAGCTTTAAAAAATCGCAATTT
TACTGTAGAAAAATGAGTGCTGAAATTAATGAGATAATTCTGTGTGTTACAACCTCACCTC
TTGGGATGAAGATGCCTGGGCCAGCAAGGACACTGAAGCCATGAAGAGAGCATTTGCCCTC
CATAGACTCCAACTGAACAGGCCAAAGGTTGGCTCCGTGACCTAGTGCCTCCCCAGG
GGATGCTGGTGAGCAGGCCATCAGACAGATCTTAGATGAAGCTGGAAAAGTTGGTGAACT
CTGTGCAGGCAAAGAACGCAGGGAGATTCTGGGAACTTGCAAAATGCTAGGGCAGATGAC
TGATCAAGTGGCTGACCTCCGTGCCAGAGGACAAGGATCCTCACCGGTGGCCATGCAGAA
AGCTCAGCAGGTATCTCAGGGTCTGGATGTGCTCACAGCAAAAGTGGAAAATGCAGCTCG
CAAGCTGGAAGCCATGACCAACTCAAAGCAGAGCATTGCAAGAAGATCGATGCTGCTCA
GAACTGGCTTGACAGATCCAAATGGTGGACCGGAAGGAGAAGAGCAGATTGAGGTGCTTT

FIGURE 1 (CONT'D)

GGCTGAAGCTCGGAAAATAGCAGAATTATGTGATGATCCTAAAGAAAGAGATGACATTCT
ACGTTCCCTTGGGGAAATATCTGCTCTGACTTCTAAATTAGCAGATCTACGAAGACAGGG
GAAAGGAGATTCTCCAGAGGCTCGAGCCTTGGCCAAACAGGTGGCCACGGCCCTGCAGAA
CCTGCAGACCAAAACCAACCGGGCTGTGGCCAACAGCAGACCGGCCAAAGCAGCTGTACA
CCTTGAGGGCAAGATTGAGCAAGCACAGCGGTGGATTGATAATCCCACAGTGGATGACCG
TGGAGTCGGTCAGGCTGCCATCCGGGGGCTTGTGGCCGAAGGGCATCGTCTGGCTAATGT
TATGATGGGGCCTTATCGGCAAGATCTTCTCGCCAAGTGTGACCGAGTGGACCAGCTGAC
AGCCCAGCTGGCTGACCTGGCTGCCAGAGGGGAAGGGGAGAGTCTCAGGCACGAGCACT
TGCATCTCAGCTCCAAGACTCCTTAAAGGATCTAAAAGCTCGGATGCAGGAGGCCATGAC
TCAGGAAGTGTGAGATGTTTTTCAGCGATACCACAACCTCCCATCAAGCTGTTGGCAGTGGC
AGCCACGGCGCCTCCTGATGCGCCTAACAGGGAAGAGGTATTTGATGAGAGGGCAGCTAA
CTTTGAAAACCATTCAGGAAAGCTTGGTGCTACGGCCGAGAAGGCGGCTGCGGTTGGTAC
TGCTAATAAATCAACAGTGAAGGCATTAGGCCTCAGTGAAGACGGCCCGAGAACTCAC
ACCCAGGTGGTCTCGGCTGCTCGTATCTTACTTAGGAACCTTGAAATCAAGCTGCTTA
TGAACATTTTGGAGCCATGAAGAACAGTGGATCGATAATGTTGAAAAATGACAGGGCT
GGTGGACGAAGCCATTGATACCAAATCTCTGTTGGATGCTTCAGAAAGCAATTAAAAA
AGACCTGGACAAGTGCAAGGTAGCTATGGCCAACATTCAGCCTCAGATGCTGGTTGCTGG
GGCAACCAGTATTGCTCGTGGGCCAACCGGATCCTGCTGGTGGCTAAGAGGGAGGTGGA
GAATTCCGAGGATCCCAAGTTCCGTGAGGCTGTGAAAGCTGCCTCTGATGAATTGAGCAA
AACCATCTCCCCGATGGTGTGATGGATGCAAAAGCTGTGGCTGGAAACATTTCCGACCTGG
ACTGCAAAAGAGCTTCTGGACTCAGGATATCGGATCCTGGGAGCTGTGGCCAAGGTGAG
AGAAGCCTTCCAACCTCAGGAGCCTGACTTCCCGCCGCTCCACCAGACCTTGAACAACCT
CCGACTAACAGATGAGCTTGCTCCTCCCAAAACCACTCTGCCTGAAGGTGAGGTCCCTCC
ACCTAGGCCTCCACCACAGAGGAAAAGGATGAAGAGTTCCCTGAGCAGAAGGCCGGGGGA
GGTGATTAACCAGCCAATGATGATGGCTGCCAGACAGCTCCATGATGAAGCTCGCAAATG
GTCCAGCAAGGGCAATGACATCATTGCAGCAGCCAAGCGCATGGCTCTGCTGATGGCTGA
GATGTCTCGGCTGGTAAGAGGGGGCAGTGGTACCAAGCGGGCACTCATTGAGTGTGCCAA
GGACATCGCCAAGGCCTCAGATGAGGTGACTCGGTTGGCCAAGGAGGTTGCCAAGCAGTG
CACAGATAAACGGATTAGAACCAACCTCTTACAGGTATGTGAGCGAATCCCAACCATAAG
CACCCAGCTCAAAATCCTGTCCACAGTGAAGGCCACCATGCTGGGCCGGACCAACATCAG
TGATGAGGAGTCTGAGCAGGCCACAGAGATGCTGGTTTACAATGCCCAGAACCTCATGCA
GTCTGTGAAGGAGACTGTGCGGGAAGCTGAAGCTGCTTCAATCAAAATTGAAACAGATGC
TGGATTTACACTGCGCTGGGTTAGAAAGACTCCCTGGTACCAAGTAGGCACCTGGCTGAGC
CTGGCTGGCACAGAAACCTCTACTAAAAAGAGGAAAATGATCTGAGTCCCAGGAGCTGC
CCAGAGTTGCTGGGAGCTGAAAAATCACATCCTGGCCTGGCACATCAGAAAGGAATGGGG
GCCTCTTCAAATTAGAAGACATTTATACTCTTTTTTTCATGGACACTTTGAAATGTGTTTC
TGTATAAAGCCTGTATTCTCAACACAGTTACACTTGTGCACCTCTATCCCAATAGGCA
GACTGGGTTTCTAGCCCATGGACTTACATAAGCTCAGAATCCAAGTGAACTAGCCAG
ACACTCTGCTCTGCCCTTGTTCCCTAGGGGACACTTCCCTCTGTTTCTCTTCTTGGCT
CCCATTCACTCTTCCAGAATCCCAAGACCCAGGGCCAGGCAATCAGTTACTAAGAAGA
AAATTGCTGTGCCTCCCAAAATTGTTTTGAGCTTTCCATGTTGCTGCCAACCATACCTTC
CTTCCCTGGGCTGTGCTACCTGGGTCTTTTTCAGAAGTGAAGCTTTGCTGCTACAGGGGAA
GGTGGCCTCTGTGGAGCCCCAGCATATGGGGGCTGGATTCAATTCCTGCCCTTCTCAG
TTTAATCCTTCTAGTTTCCCAATATAAACTGTACTTCACTGTGAGGAAGAAATCACA
GAATCATATGATTCTGCTTTTACCATGCCCCCTGAGCAATGTCTGTGCTAGGGAACTTCC
CGTCCCATATCCTGCCTCAGCCCGCAAGGTAGCCATCCCATGAACACACTGTGTCCTGG
TGCTCTCTGCCACTGGAAGGGCAGAGTAGCCAGGGTGTGGCCCTGCCATCTTCCCAGCAG
GGCCACTCCCGGCACTCCATGCTTAGTCACTGCCTGCAGAGGTCTGTGCTGAGGCCTTAT
CATTCACTCTTAGCTCTTAATTGTTTCAATTTGAGCTGAAATGCTGCATTTTAATTTAAC
CAAAACATGTCTCCTATCCTGGTTTTTGTAGCCTTCCCTCCACATCCTTTCTAAACAAGAT
TTTAAAGACATGTAGGTGTTTGTTCATCTGTAACCTCTAAAAGATCCTTTTAAATTCAGT
CCTAAGAAAGAGGAGTGTCTGCTCCCTAAGAGTGTTTAATGGCAAGGCAGCCCTGTCTGA
AGGACACTTCTGCCTAAGGGAGAGTGGTATTTGCAGACTAGAATTCTAGTGCTGCTGAA
GATGAATCAATGGGAAATACTACTCCTGTAAATTCCTACCTCCCTGCAACCAACTACAACC

FIGURE 1 (CONT'D)

AAGCTCTCTGCATCTACTCCCAAGTATGGGGTTCAAGAGAGTAATGGGTTTCATATTTCT
TATCACCACAGTAAGTTCCTACTAGGCAAAATGAGAGGGCAGTGTTTCCTTTTGGTACT
TATTACTGCTAAGTATTTCCAGCACATGAAACCTTATTTTTTCCCAAAGCCAGAACCAG
ATGAGTAAAGGAGTAAGAACCTTGCCTGAACATCCTTCCTTCCACCCATCGCTGTGTGT
TAGTTCCCAACATCGAATGTGTACAACCTTAAGTTGGTCCTTTACACTCAGGCTTTCACTA
TTTCCTTTATAATGAGGATGATTATTTTCAAGGCCCTCAGCATATTTGTATAGTTGCTTG
CCTGATATAAATGCAATATTAATGCCTTTAAAGTATGAATCTATGCCAAAGATCACTTGT
TGTTTTACTAAAGAAAGATTACTTAGAGGAAATAAGAAAATCATGTTTGCTCTCCCGGT
TCTTCCAGTGGTTTGAGACACTGGTTTACACTTTATGCCGGATGTGCTTTTCTCCAATAT
CAGTGCTCGAGACACAGTGAAGC

Gene 220. >ENST00000334073 cDNA sequence

GTGGTGTGCTCCTTGCAGAGTTCGTGTGGTGAAGCTTTCAACAAGGTGCTGAGCAGTGTC
AATCCAGTCCCTGTTTACATTCCAAACCTGAGTCCTCCACCAATGCAGGGATCACGTTA
CCAACGCGTGGGTACAAGTGCTTGGAGTGTGGGGACTCCTTTGCAGTTGAAAAGAGTCTG
ACCCAGCACTATGACAGACAGAGCATGCGCATCGAAGTAACATGCAACCATGGTACAAAG
AACCTCATTTTTTACAACAAATGCAGCCTCCTTTCCCATGCCCCTGGGCATAAGGAGAAA
GGGGTGGTAATACAATGCTCCCACTTCATTTTTAAAGCCAGTCCAGCAGGTCAAATGATA
GTTTTCTCCATCAAGCAATATTTTCACTTCAACTTCCACTCTTCAGAGCCCTGTGGGAGCT
GGCACACACACTGTCAAAAAATTCAGTCTGGCATAACTGGGACAGTCATATCGGCTCCT
TTAAGCATTCCCATCACCCAGCCATGCCCTAGATGAAGACCCCTC CAAAGTGTGTAGA
CATAGTCTAAAATGTTTGGAGTGTAATGAACTTCAGTATGAGACATCAATGGCTACACAT
TTCCAGCAGGCTGCAGATACAGTGGACAAAAGACTTGCACTATCTGCCAGATGCTGCTT
CCTAACCAGTGCAGTTACGCATCACACCAGAGAATCCATCAGCACAAATCTCTCTACACC
TGCCCTGAGTGCGGGGCCATCTGCAGGTGCGGTGCACTTCCAGACCCATGTACCAAGAAC
TGTCTGCACTACATGAGGAGAGTTGGTTTTTCGATGTGTGCATTGCAATGTTGTATACTCT
GATGTGGCTGCCCTGCAGTCTCACATTCAAGGTTCTCACTGTGAAGTCTTCTACAAGTGT
CCTATTTGTCCAATGGCATGTAAGTCCGCCCCAAGCACACATTCCCACACCTACACACAG
CATCCTGGCATCAAGATAGGAGAACCAGAAAATAATATATAAGTGTTCATGTGCGACACT
GTGTTTACCCTGCAAACTTGTGTATCGCCACTTTGACCAACACATTGAAAACCCAGAAG
TTGTCTGTTTTTCAAGTGTCCAGACTGTTATCTTTTATATGCACAGAAGCAACTTATGATG
GACCATATCAAGTCTATGCATGGAACATTGAAAAGTATTGAAGGGCCTCCAACTTGGGT
ATAAACTTGCCTTTTGAGCATTAAGCCTGCAACTCAAAATTCAGCAAATCAGAACAAAGAG
GACACCAAATCCATGAATGGGAAAGAGAAATTGGAAAAGAAATCTCCATCTCCTGTGAAA
AAATCAGTGGAAACCAAGAAAGTGGCCAGTCTGGGTGGACGTGTTGGGAGTGTGACCGC
CTGTTTCAATCAGAGAGATGTGTACATATCCACGTGAGGAAGGAGCAAGGGAAGCAAATG
AAGAAACATCCCTGCCGCCAGTGTGACAGCTCATCCACAGCCTGTGCCAGCACAAACCGG
ATCAAGCACAAAGGCATCAGGAAAGTGTATGCCTGC

Gene 221. >ENST00000329171 cDNA sequence

ATGACTCTTAATGAGCATGCTGCCTTCAAGCATCTGTTTAAACAAAGCACATCTTGCACCA
CCCTTAATCCATTCAACCCCTGAGTGGACATAGCACATGTTTTCAGAGAGCAAGGGTTGGG
GGTAAGGTACAGATCAACAGGATCCCAAGGCAGAAGAATTTTTCTTAGTACAGAACAAA
ATGAAAAGTCTCCCATGTCTACCTCTTTCTACACAGACATGGCAACCATCCGATTTCTCA
ATCTTTTCCCCACCTTTCCCCCTTTCTATTCCACAAAACCGCCATTGTCATCATGGCCC
GTTCTCAATGAGCTGTTGAGTACACCTCCAGACGGGGTGGTGGCCGGGCAGAGGGGCTC
CTCACTTCCCAGTAG

Gene 222. >ENST00000265450 cDNA sequence

AACTTGCTCTAACTTCTCGGCCGAGCCGGGCCGCGCCGCTGCCGCCCGCGCGCGG
GATTCTGCTTCTCAGAAGATGCACTATTATAGATACTCTAACGCCAAGGTGAGTGTGCTGG
TACAAGTACCTCCTTTTTCAGCTACAACATCATCTTCTGGTTGGCTGGAGTTGTCTTCCTT
GGAGTCGGGCTGTGGGCATGGAGCGAAAAGGGTGTGCTGTCCGACCTCACCAAAGTGACC
CGGATGCATGGAATCGACCCTGTGGTGTGCTGCTGATGGTGGGCGTGGTGATGTTCAAC
CTGGGGTTTCGCCGGCTGCGTGGGGGCTCTGCGGGAGAATATCTGCTTGCTCAACTTTTTT
TGTGGCACCATCGTGCTCATCTTCTTCTGAGCTGGCTGTGGCCGTGCTGGCCTTCTCTG
TTCCAGGACTGGGTGAGGGACCGGTTCCGGGAGTTCTTCGAGAGCAACATCAAGTCTTAC

FIGURE 1 (CONT'D)

CGGGACGATATCGATCTGCAAAACCTCATCGACTCCCTTCAGAAAGCTAACCAAGTGCTGT
GGCGCATATGGCCCTGAAGACTGGGACCTCAACGTCTACTTCAATTGCAGCGGTGCCAGC
TACAGCCGAGAGAAGTGCAGGGTCCCCTTCTCCTGCTGCGTGCCAGATCCTGCGCAAAAA
GTTGTGAACACACAGTGTGGATATGATGTGAGGATTGAGCTGAAGAGCAAGTGGGATGAG
TCCATCTTTCAGAAAGGCTGCATCCAGGCGCTGGAAAGCTGGCTCCCGCGGAACATTTAC
ATTGTGGCTGGCGTCTTCATCGCCATCTCGCTGTTGCAGATATTTGGCATCTTCTGGCA
AGGACGCTGATCTCAGACATCGAGGCAGTGAAGGCCGGCCATCACTTCTGAGGAGCAGAG
TTGAGGGAGCCGAGCTGAGCCACGCTGGGAGGCCAGAGCCTTTCTCTGCCATCAGCCCTA
CGTCCAGAGGGAGAGGAGCCGACACCCCCAGAGCCAGTGCCCATCTTAAGCATCAGCGT
GACGTGACCTCTCTGTTTCTGCTTGCTGGTGCTGAAGACCAAGGGTCCCCCTTGTTACCT
GCCCAAACCTTGAGTGCATCCCTCTGGAGTCTACCCAGAGACAGAGAATGTGTCTTTAT
GTGGGAGTGGTGACTCTGAAAGACAGAGAGGGCTCCTGTGGCTGCCAGGAGGGCTTGACT
CAGACCCCTGCAGCTCAAGCATGTCTGCAGGACACCTGGTCCCCTCTCCTACTGGCATC
CAGACATCTGCTTTGGGTCTCCACATCTGTGGGTGGGCCGTGGGTAGAGGGACCCACAG
GCGTGGACAGGGCATCTCTCTCATCAAGCAAAGCAGCATGGGGGCCTGCCCGTAACGGG
AGGCGGACGTGGCCCCGCTGGGCCTCTGAGTGCCAGCGCAGTCTGCTGGGACATGCA CAT
ATCAGGGGTTGTTTGCAGGATCCTCAGCCATGTTCAAGTGAAGTAAGCCTGAGCCAGTGC
GTGGACTGGTGCCAAGGAGTGCTTGTCCACTGTCCCCCTGTGTCCACCAGCTATTCTC
CTGGCGCCGAACTGCCTCTGGTCTTGATAGCATTAAAGCCCTGATGGCGCCGGTGGCGCG
GTGGGCATGGTTCTTCACTGAGAGCCGGCTCTCCTTTTCTTAAAGTGTGTAAATAGTTTA
TTTATAGGGGTAAGAATGTTCTCACACCATTTCACTTCTCTTCTCTCTCTCCAGCATTCT
TCCTCTGAGCAGCCTTAGATAGTGTCCATGGCTGGAGCCGACCCTTTGAGTCCCCTTGAG
TGTCTTAAGAACCAGCCCAACAGCCTCTCTTTCTCCTCCACATACTGCAGCCTCCCTC
CATGCATCCCAATACAAGCACTCCCCCACTCCCCAGCGTGGCCTCACTGTCTTCTGGTC
TTGGTGCTACTGAAATTGTCAACCAGAAATTTGAATCCTGACCCTCCCCACTGCAAGCCCA
GGGAGCCCCAGCCCAAGATGGCCAGCCTGAAACTGTTGGCCAGGGCTCCTCTTGTGGCCA
TGTAACCCAGGGCTGGCTGGCCTGCCATTTGCCTCTCCCCGAGACAGCCGTTCTTCTGCA
ACCAACCCCCGTGCCTAGCCACAACCCCCAGGCTGCAGCTGCTCAGAAGCTCCAGGCATTT
TGTTTCTGGTGACCGCCCCCTAATGGGATATCGGTGATCACTGGTCCACCCTTCTGTGAG
GGCTTTTCTGGGGCTGCTCTTGGAATGAAGTCTTAAGTACTGAATAACTCCCCCTGGGGA
TAGCTGGGGCATTTGTCTAGCTGGGCTACTTTCTAACACTTTGCCATAGCTCAGACCACT
TCTCATCGTTAGGGATGGACTGCAACCTTAATTTACTTGCCGGAGTGATACATTCTAGTG
TGGTGTATACTGGTGGCTGTTGATGATGATTTTTTTTTTTTACACAATTCTCTGTAGAC
TAGGAGAAGAATGCTTGTGTTTTTTCGGAAGTGTGATGCTTCTCTTTGACTGCCAAACTCT
TTTATGGAATATATCTTTATATT

Gene 223. >ENST00000312169 cDNA sequence

CTCTAACTTCTCGGCCGAGCCGGGCCGCGCCGCGCTGCCGCCGCCGCGCGCGGATTCT
GCTTCTCAGAAGATGCACTATTATAGATACTCTAACGCCAAGGTGAGCTGCTGGTACAAG
TACCTCCTTTTTCAGCTACAACATCATCTTCTGGGGTGTGCTGTCCGACCTCACCAAAGTG
ACCCGGATGCATGGAATCGACCCTGTGGTGCTGGTCTGATGGTGGGCGTGGTGATGTTT
ACCCTGGGGTTTCGCCGGCTGCGTGGGGGCTCTGCGGGAGAATATCTGCTTGCTCAACTTT
TTCTGTGGCACCATCGTGCTCATCTTCTTCTGAGCTGGCTGTGGCCGTGCTGGCCTTC
CTGTTCCAGGACTGGGTGAGGGACCGGTTCCGGGAGTTCCTCGAGAGCAACATCAAGTCC
TACCGGGACGATATCGATCTGCAAAACCTCATCGACTCCCTTCAGAAAGCTAACCAAGTGC
TGTGGCGCATATGGCCCTGAAGACTGGGACCTCAACGTCTACTTCAATTGCAGCGGTGCC
AGCTACAGCCGAGAGAAGTGCAGGGTCCCCTTCTCCTGCTGCGTGCCAGATCCTGCGCAA
AAAGTTGTGAACACACAGTGTGGATATGATGTGAGGATTGAGCTGAAGAGCAAGTGGGAT
GAGTCCATCTTACGAAAGGCTGCATCCAGGCGCTGGAAAGCTGGCTCCCGCGGAACATT
TACATTGTGGCTGGCGTCTTCATCGCCATCTCGCTGTTGCAGATATTTGGCATCTTCTTG
GCAAGGACGCTGATCTCAGACATCGAGGCAGTGAAGGCCGGCCATCACTTCTGAGGAGCA
GAGTTGAGGGAGCCGAGCTGAGCCAAGCTGGGAGGCCAGAGCCTTTCTCTGCCATCAGCC
CTACGTCCAGAGGGAGAGGAGCCGACACCCCCAGAGCCAGTGCCCATCTTAAGCATCAG
CGTGACGTGACCTCTCTGTTTCTGCTTGCTGGTGCTGAAGACCAAGGGTCCCCCTTGTTA
CCTGCCCAAACCTTGAGTGCATCCCTCTGGAGTCTACCCAGAGACAGAGAATGTGTCTT

FIGURE 1 (CONT'D)

TATGTGGGAGTGGTGACTCTGAAAGACAGAGAGGGCTCCTGTGGCTGCCAGGAGGGCTTG
 ACTCAGACCCCTGCAGCTCAAGCATGTCTGCAGGACACCCTGGTCCCCTCTCCACTGGC
 ATCCAGACATCTGCTTTGGGTCAACCATCTGTGGGTGGGCCGTGGGTAGAGGGACCCA
 CAGGCGTGGACAGGGCATCTCTCCATCAAGCAAAGCAGCATGGGGGCTGCCGTAAC
 GGGAGGCGGACGTGGCCCCGTGGGCCTCTGAGTGCCAGCGAGTCTGCTGGGACATGCA
 CATATCAGGGGTTGTTTGCAGGATCCTCAGCCATGTTCAAGTGAAGTAAGCCTGAGCCAG
 TGGTGGACTGGTGCCACGGGAGTGCTTGTCCACTGTCCCCCTGTGTCCACCAGCTATT
 CTCCTGGCGCCGGAAGTGCCTCTGGTCTTGATAGCATTAAAGCCCTGATGGCGCCGGTGGC
 GCGGTGGGCATGGTTCTTCACTGAGAGCCGGCTCTCCTTTTCTTAAAGTGTGTAAATAGT
 TTATTTATAGGGGTAAGAATGTTCTCACACCATTTCACCTTCTTCTCTCTCTCCAGCA
 TTCTCTCTGAGCAGCCTTAGATAGTGTCCATGGCTGGAGCCGACCCTTTGAGTCCCCTT
 GAGTGTCTTAAGAACCAGCCCAACAGCCTCTCTTTCTCTCCACATACTGCAGCCTCC
 CTCCATGCATCCACATACAAGCACTCCCCCACTCCCCAGCGTGGCCTCACTGTCTTCTG
 GTCTTGGTGCTACTGAAATTGTCACCAGAATTTGAATCCTGACCCTCCCCACTGCAAGC
 CCAGGGAGCCCCAGCCCAAGATGGCCAGCCTGAAACTGTTGGCCAGGGCTCCTCTTGTGG
 CCATGTACCCAGGGCTGGCTGGCCTGCCATTTGCCTCTCCCCGGAGACAGCCGTTCTTCT
 GCAACCAACCCCGTGCCTAGCCACAACCCAGGCTGCAGCTGCTCAGAAGCTCCAGGCA
 TTTTGTCTTCTGGTGACCGCCCTAATGGGATATCGGTGATCACTGGTCCACCCTTCTGT
 CAGGGCTTTTCTGGGGCTGCTCTTGGAAATGAAGTCTTAAGTACTGAATAACTCCCCTGG
 GGATAGCTGGGGCATTTGTCTAGCTGGGCTACTTTCTAACACTTTGCCATAGCTCAGACC
 ACTTCTCATCGTTTCAGGGATGGACTGCAACCTTAATTTACTTGCCGGAGTGTACATTCTA
 GTGTGGTGTATACTGGTGGCTGTTGATGATGATTTTTTTTTTTTACACAATTCTCTGTA
 GACTAGGAGAAGAATGCTTGTGTTTTTTCGGAAGTGTGATGCTTCTTTTACTGCCAAAC
 TCTTTTATGGAATATATCTTTATATT

Gene 224. >ENST00000316064 cDNA sequence

AACTTGCTCTAACTTCTCGGCCGAGCCGGGCCGCGCCGCTGCCGCCGCCGCGCGCG
 GATTCTGCTTCTCAGAAGATGCACTATTATAGATACTCTAACGCCAAGGTGAGCTGCTGG
 TACAAGTACCTCCTTTTTCAGCTACAACATCATCTTCTGGTTGGCTGGAGTTGTCTTCTT
 GGAGTCCGGCTGTGGGCATGGAGCGAAAAGGGTGTGCTGTCCGACCTCACCAAAGTGACC
 CGGATGCATGGAATCGACCCTCCTTGGGGTCTTTTCTGTACCCCTCCTCAACCCTGGTC
 CACCCCTCTCAGGATCTTGTCAACGTTATTTTTCTGTCCCGTCTTCTTATCGCTGGCC
 TTCCTTTCCCATCTAAAACTTGCCGAGGCCCTATGGCTCCCTCCCTTTCTTTCCAGG
 CAGCTTCTTATCTGGGCTGTCTGTACCCCTTCTTTTGACCAACCCACATGCCCCACGTA
 GCTGAAAGCTGCTTATCCCAATTGTCAACTCTGGCCTTCTTCAGCCTCTGTAGCACCAGA
 CACTGCACCTCCTGA

Gene 225. >ENST00000323546 cDNA sequence

ATGGGGTTTCTCCATGTTGGTCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCC
 ACCTCGGCCTCC

Gene 226. >ENST00000330581 cDNA sequence

CTCGGCTTCTCCAGCTTCCGTAGGAGAGGATCCGGCGCCGAATCACTGACTGGCACAGGT
 GTTGGGAAAATGATCCACAGTCTATTTCTCATAACTGTTCCGGTGACATATTTCTAGAG
 AAGCACTGGAAGAGCGTTGTGAGCCAGTCTGTCTGTGATTATTTCTTTGAAGCTCAAGAG
 AAAGCTGCTGATGTTGAAAATGTACCACCTGTCAATTTCAACACCTCACCACTACCTCATC
 AGTATCTACCGGGATAAGCTCTTCTTTGTATCTGTATACAGACCGAAGTGCCACCTCTC
 TTTGTAATTGAGTTCTACATCGAGTTGCTGACACTTTTCAGGACTACTTTGGTGAGTGT
 TCAGAGGCTGCAATTAAGGATAATGTGGTCATAGTATATGAACTCTTAGAAGAAATGTTA
 GACAATGGATTTCCACTGGCTACCGAATCTAACATTTTGAAAGAATTGATTAAACCA
 ACAATTCTACGCTCTGTTGTCAACTCTATTACAGGCAGTAGTAATGTTGGGGACACACTC
 CCCACCGGGCAGCTGTCCAAATACCATGGCGTCCGGCAGGGGTAAAGTACACAAACAAT
 GAAGCCTATTTTGATGTTGTTGAAGAAATAGACGCAATTATAGATAAATCAGGATCTACA
 GTCTTTGCAGAAATTGAGGGGTATTGATGCTTGCATTAACTATCTGGAATGCCTGAT
 CTCTCCCTTTCTTTTATGAACCTAGGCTTCTGGATGATGTCAGCTTTTCAACCTGCATC
 CGGTTCAAGCGTTGGGAATCTGAAAGAGTTTGTCAATTTATTCCTCCAGATGGAAATTTT
 CGACTCATATCATACCGTGTGAGCTCACAAATCTAGTGGCAATACAGTGTATGTGAAA

FIGURE 1 (CONT'D)

CATAGTATCAGCTTTAAGGAGAACAGTTCTTGCGGCAGATTTGATATAACAATTGGACCA
AAGCAGAATATGGGGAAAACATTATTGAAGGAATTACAGTGACAGTTACATGCCAAAAGTT
GTGCTGAA CATGAACCTGACACCCACACAAGGCAGCTATACATTTGATCCAGTCACCAAG
GTACTAACATGGGATGTGGGAAAAATTACTCCACAAAAGCTCCCAAGTCTTAAAGGACTG
GTAAATTTACAGTCTGGAGCCCCCAAACCAGAAGAGAATCCGAGCCTCAACATACAGTTT
AAGATCCAGCAGCTTGCTATTTTCAAGGCTTAAAAGTAAACCGTTTGGACATGTATGGGGAG
AAATATAAGCCATTTAAAGGAGTCAAATACGTACGAAAGCTGGAAAGTTTCAAGTGAGG
ACATGAGAAGAGGCCAAAATTCCTCAGGACCAGTTTGTTCCTCAAGTGTATTACGATGT
ATCACTATTAGGTACCAAGTGAGTGGGAATACATATTCTAGTTAAAGCATTGTGTCTAG
CTACACACCGCTAACAAAGTTACTTAGTTATCAATGTAGGATTCTTAAGGAGCTTTAAGC
TAAGGAAACCTTTTGTAGTACTTAGCTTATTTTGTATCTTTTCACTTAGGAAGATTTTGA
GGTGATTTTTTTCCATAGGAGGATACCATCTGGCGGCTGCACATTGTAACAGTAAAGGCA
GAAAGCTGTAGTGATAACCTCTCTCTTAAAGAGTTAACTGGTCTCATCCAGCAGAAGCT
ATCTTAAATCTGTGATGTGTGAGGTGCAGCCAAATATCACACCTTCTGATCTTAGCCATC
CCAAACCAGTATCTGTCCCGAGAGGAAATTCCCCCACCCCAAGTTTACAGAAAACCT
GCCTCTTCAAGTGTTTTGCCTTATTAGCTTTTTCACTTGTGCCATTAAGCAAGCACTGTAG
CAAAAGCCACTTCCACATGGCCCTGGCAGGGAGCACTGCTGCTCCATGCTCCATTCTCAC
TGTACTTGGTATTGTATTTTTTATAAATAAGATTTTTTATGTAAAGCTTAGAATTTGATTT
ACAGGGACCTTGCTGCAGTAAATACCATCTCAATTTTGTGCCACTGGTTTCAAGTGTAGC
ACAGTAAAAAATCATTTGTATCAAAGGGGCAAATGCTTTATTAAGGTAGTAAAGGGAA
CATTACTTCTGCTTTTAGGAAGTTACTGCAAGCACAAGCATTGTGCTTTAAGCAAATT
AAAGTAGTAAAGAAAAAATTAAGTGAACCTTTGCCATCTTCATGTTTTATAATATAAA
GCTTACCCAACACCAGTTAAGCCATGGTTAACCTAAATGCCTCATGCCCCAGTTAGCAA
AAGGAGGAAAATGTGCCTGCCTCACAGTCATCAGTCTTTTTTAAATCTTTTTTGTGTTGT
TCTTAAGGGTTTTGAATTTGTCTGCATTCTTGTCTTTAGGGGAAATTCCTTTTATATT
GTGTGCTTCCCAAAGCTATAGTCATAGATTTCTTCCAGAACTATTGTGATAATTGTCAC
TGGAGTGCTTAAATATACGTACTATACTGACAAAATACATGGAAGTGAGTTATAATGAGG
CAGAAACAAAATCCTCGGTAACATTGATGATACTCTACCGATCACCGTGGTTTTGGAAAG
TCAGTCAACAGTTGTATTATTGCACTCAATTTTATTGTGACATTTTATTTAACTTCTTCA
TCTTGGTGGTCTTGGCCAGTTATTTTGCCTCATTAGACATCAAGAAATGGAGAAAGACT
GAAAGTTAATATCTTAAGTGCTTGTCTTTCATGTTTCTTCTTGTATTATGCTATTCT
CTTTGTGGCTCCATTCTTCTTTCAATCTTCTCAGCTTATAACCGTCTTTCCCTTATGCTA
AGGATAGCCCTTACACTCATCCCATCTATGCTGTCAAGGGCTGCTGGTTGGTGCTGGTAC
AAGGAGCCCACTCAGCAGTTTTCTTACCTTTGCCTGCCCTGCCTTTTATGGAATAAGAAA
GGCAACGTTTTGCAGCTTCCAAATTTCTGAAGAACTAATCTCAGATTGGCAGTTAAAGT
CAAAATGTTGCCAAATATTTATTCCTTTGCCTAAGTTTGGCTACCCGGTTCAATTGCTT
TTTATTTTTAATGTCTTGACTCTTTCAGAGTTTCGTACCTCAAAGAAACAATGAGAACATTT
GCTTTGCTTTCTGCTGAATCCCTAATCTCAACAATCTATACCTGGACTGTCCAGTTCTCC
TCCTGTGCTATCTTCTCTTCTATCCAAGTAGAATGTACGCCAGGAGCTCCTTCCCTCTAG
CAATTTCTACTAAAATGTCCAAGTAGAATGTTTCTTTTACAATCAAATTACTGTATTTA
TTAATTTGCTAGAATCCAGTAAATCATTTTGGTAGCTCTGGCTGTGCTATCAATAAAAAG
ATG

Gene 227. >ENST00000329262 cDNA sequence

ATGGCAGATGATTTGGACTTCGAGACAGGAGATGCAGGGGCCTCAGCCACCTTCCCAATG
CAGTGCTCAGCATTACGTAAGAATGGCTTTGTGGTGCTCAAAGGCTGGCCATGTAAGATC
GTGGAGATGTCTGCTTCGAAGACTGGCAAGCACGGCCACGCCAAGGTCATCTGGTTGGT
ATTGACATCTTTACTGGGAAGAAATATGAAGATATCTGCCCGTCAACTCATAATATGGAT
GTCCCACACATCAAAGGAATGACTTCAGCTGATTGGCATCCAGGATGGGTACCTATCA
CTGCTCCAGGACAGCGGGGAGGTACCAGAGGACCTTCGTCTCCCTGAGGGAGACCTTGGC
AAGGAGATTGAGCAGAAGTACGACTGTGGAGAAGAGATCCTGATCACGGTGCTGTCTGCC
ATGACAGAGGAGGAGCTGTTGCAATCAAGGCCATGGCAAAATAA

Gene 228. >ENST00000298180 cDNA sequence

CGCAGTCGGGGGGAGGCGGGGCGAGCGGCTGCGGGCAGCGCGGGGGCGCAGGG
CGCGGGGCGATCACCGTCGGGGCTCGGGAGGCGGGCAGTGGGCACAGGCTCCCCGGTGCC

FIGURE 1 (CONT'D)

CGCCCCCTCCGCTGCGGAGGGGGGCGCGAGCGGGCGGCCGGGGAGGGGCGGGCACCGCCG
 CCACAAAATGAGCCTGCTGTGCGCCATCGACACGAGCGCCGCTCGGTGTACCAGCCCGC
 CCAGCTGCTCAACTGGGTCTACCTGTGCTGCAAGGACACGCAACAGGCTAGCGCCTTCGA
 TGCCTTCCGGCCCGAGCCGACCGCCGGCGCCGCACCCCCGAGCTGGCCTTCGGCAAGGG
 CCGCCCCGAGCAGCTGGGCTCGCCCTGCACTCCAGCTATCTCAACAGCTTCTTCCAGCT
 GCAGCGCGGAGAGGCGCTGAGCAACAGTGTGTACAAGGGCGCCTCACCTATGGCTCCCT
 CAACAACATCGCCGATGGCCTCAGCTCCCTCACCGAGCACTTCTCAGACCTGACCTCAC
 CTCGAGGCTCGCAAGCCAGCAAGCGGGCCCCCAACCACTACCTGTGCCACCTGTGCTT
 CAACAAAGGACACTACATCAAGGACTGCCCCAGGCACGCCCAAAGGCGAGGGCCTGAC
 TCCATACCAGGGCAAAAGCGCTGCTTCGGCGAGTACAAGTGTCCAAGTGCAAGAGAAA
 ATGGATGAGCGGGAACCTCTGGGCCAACATGGGGCAGGAGTGCATCAAGTGCCACATCAA
 CGTGTATCCACACAAGCAGAGACCCCTGGAGAAGCCCGACGGCCTGGACGTGTCCGACCA
 GAGCAAGGAGCACCCGAGCACCTCTGCGAGAAGTGCAAGGTCTGGGCTACTACTGCCG
 TCGCGTGCACTGACGGGCTGCCCGCCCGCACCCAGAGCCACCCCGCCAGCCCGAGGAG
 ACGCTGCTTCCCTGTGCTACTCCGAGGGGCTGCGTGTGCGCCTGTGCATGGGGTGCCCTC
 GCAGGCCTGCGGGGCTGGGCCGGGGGCTCTTAGCGTCCTTGTCTTGTGTGTGTTGACAAA
 CAGTGTACTGACATTGCTGCCCCCACAGGCCAGGGAAAGCAGGGAGTCTGGGGCTTTT
 TGCAGGCGGGCCTGGGGTCTCAGTGGAGGGGACAAAGGCAAGCAAAAGCCCATGTCCAGG
 AGCCCTGGGTGTCCCCACAGGCTCGCCTCTGAGAGCCTCTTTGGGGTGAGCAGCCTTGTA
 TTGGCCACAGGTGCACTAAATTGACTGTGAATCCAAACCTCCCCAGACCAGCCAGGCCG
 CCTGCCCCACCCAGAACCTTCCGGTTTGCCCTGTATGGAAAGCCACTCTCAGAAATCCC
 TCTTTCCTGAGTCAGCAATCGTGGCAAGGGGACATGTGTTCCAACAGCGGCTGGGGAGTG
 GACCTCTCTGTCCCTTGCCACCTTAAGCCCCAAATCCAGACCCCTCTGACATCACTGG
 CATTGCACCTGGGTGTGCCCCCTCCCCACGCTATGGACCCAGATAGGAGGGGTTAGGCA
 TGGGGGAGGCACAGAATGCTGGAGAGATGCGTCTGCTGGAACGTGGGGCAGCCCCCTCCA
 CGACCCACCAGACTGCCTTAGGTTTTGTGAGCCCCACTCCCTTTCCTTCCCCTCTGCC
 TCCCACCCACTCTGGGGGTCCACATCAAGATAGCTGGGCCAGTGTGGAAGCCAGCGTG
 TCTGTTCCAGCAGAAAGGACACAAGCCTGGTGTCTGGAGACCTCGGCTCAAGTCTTTGC
 CCTGCTGCCGACGCATTGTGTACCTTGGGCAAGGACTTCGCATCTCCAGGCCTCAGTTT
 CCCCATTAGTTAAATGACAGCATAACACTAGAGAGCAGAGGGCCATTTTCAGCTCTGTTG
 TTCTGGGATTTCAGGCTGGCCGGTGCTGTGTCTGAGGCTTTATTTGGGGAGTTTCACCCA
 GAATGGTGGGAGAAACCTCCCAGGTGCCAGGTACCCCGCATCGTGACCCTTCACTTGGTG
 TCTTAGGAAGTCAAGCTGAGGGATGCTGAGTCTCCCCCTGCTGGCCCTGCAGCCCGAGC
 CCTGCTTTTTCATCCCCACCCCTGCAACATGGAGGAGCCCCCTCCTTCTCACCTCGGTG
 TCCTAGCCCCTGACATGGAGAACCCTGAGACAAGCCACAGAACCCCTCTTTTCTAAATG
 GAGACAATAATTTCTACCTCCCAAGGGAGCAGAGAGGCCTCGTGGCACGTCCGTGGCCA
 GGGAGCCCACTGTCTGGCTGGCGGCGGGATCGTGCGTCTCTGTCTCCCGGATGAGAA
 GCCCCGTTTCCATGGTCTTGACCTTCTCTTCTCCCCGGCTGTGAGAACTGGGTCTCTTGA
 TTTTGCCCCCTACATTATGCCTCTGTGGGAAAAAAAAAAAAATCAGACCAAGAAATGAGCCT
 GAAATTGAGTGTATACCATGGCTCAAGGATGCCCATCTGGTGTCCAGTTGCCTTTTGTAT
 TCAAATGAAAATGCTTTGTACAACTGAGGAGTTACAGTGAAAGTTTAAACAGGGGTCCAG
 GGAGCGAGTTGAAAAGATGGAGTGAGTGTATTTGCAGCCAGGGAGCTGCAGGGTGGATTT
 GAGGGGCCATACCCTCTGAGCACTTAAAAAAGGTATTTGCTCCAGGCCAGGCAGCAGGCT
 GTGGACACCTTGCCACCACTGGGACTGCCACTGAGGACTCCCCGAGCACGTTGTTCCC
 CGTCTTCTCCAAGGTGTTGAGGTGAGCTGGGGTTGGCCCCGGCCAGGCTTCTGTCCCAA
 GGAGAAGCTGCCACTGACAGTCATCTACCGCACTGCTAAAGAGAATGTTGCGAGTGGTG
 GGCGGCGTGCCTGTGCCAACCTTCCAGGGACCCGGCCATGGGGGACCTTGGCCCAAGGA
 TGCCTGGGGCCTGCCAGCTGTGCTGCAAAGGTGGGGGGCCACACCCTAAAACTAACCCA
 GGCCCCAGACCACTGGAGGCCAGGGCTTCCCTGCACGGGCTAAGGGGAGTTGGGATATCA
 CCCCAAAGTGACCTTGCCAGTGAGCTGTTTCCAGAGGTAGCCACTGCCCTGCCATCTGTGC
 AGAGCCAGCCACCTTGGGGGCTGGGGTTCCCGCTTTGAGGCCACCTTCCATACTCCCCT
 TGAAGTGGCTCTGGCTGAACTGGGGAACTCTCTTGTGGTGCAGCAAAGCCCCTGCCATGCA
 GGCCAGGTGCCATTGAGAATTAAGTGCTCAGAGGGCCAGGAGCCAGGGGATGGGAAAGT
 GTGTGGTTTTAGTACGTTCAAAGGGACAATCGCTTGCAAGTTGGTAGATCTAGCGATCTA

FIGURE 1 (CONT'D)

GTTGGGAGATAATGGTGTGTTTACCCCATATGAAGTATTCAATAGTTCTACTTGTGAATTTG
TATTTATTTTGGAGTTATACTTGACACAGAATTCCTTTTTTAAAAAATATGTGTGTATTT
TGGAAAAAAATTCATAGATGTTAAAATTTCTGCATGGTTACCAGTTTTCTCACAACAC
TGAATTTGGTAGCTTTTCCGAAAAAATCTTCACAGTAATTTTTGTCTGTATATATTTG
AGGGCCTTTTTTAAAAAAGAGAGGCATTTTCAAAATTTCAGAACTTTCAGGAGGGCAAGAGAA
TATCAAAACAAAGATTTCTGGAAGTATTTTGCCAACCTTCTGGTTGAGCTGCAAGAAAATA
TTTATGGTGAGAACTTTTCTGTTTCCCGTTATTGGGTTTTTGGTTGGTTTTTGTGTTGTTT
TTTACTATGCTTTGGTCTGTAAAAATATGCAACTGAACTACATTTCAGAAGGAAATATTGT
CTACATAGAATATTATATGAAGTTGGTACATAATTCTGATGAGGAAAAAATCTTTGCA
ATTCTTTAAGCCATATTGTTGTTTTTCTGTGTTGTTTTCCCTGGATGAAAATATCAGTAT
TAAGTAGACAGCATATTATTCAAGTGTGTTAGACTTATTAATATGTTCTTGTCCTGTATTT
ATACATATGTGTATTTTGGAAAGTATTGCCCTTTTTAAGGGAAGCTATAATTCGATACAT
AGTGAAAAAGGGAATGGTGACCCCTTTGTGCCTCTTCCACTGAGGATAACAAACAGCATT
GTAATCCATTCTCTTGACCTTCTTCTTCTTATCTTGTTATTACGGTTTTATTAATTTTG
TAGAGGGACAGGGAGTGGGCAAGGGGAAGAAGCAGCTTATTTGACTAACAGCCCTCTG
TGGTCCACCAGCGTCTTGGCTTGGTGGGAGGGCTCTCAATCAGCAGGGCCCAGGAGGGA
AGAAGAAGTGGGGCAAAGCCTGGCCTCGCCGCTCGGGAGCTTTGCCATCTGAGCCACGCC
TCCTCCAGGCCATGCTCCTTGAACTTGGAATGTCAACCGGAGCCCTTACACCAGCCCTC
CAGCATCTAATAGACTTGAATCTACTCTAAACGAATATTTAATCCAACCTCACTACATTG
TAGCTCAGTCCAACGACTAACCTGAAATGGGGGTGTTCCAGCCTTCAGCGAGATGGCCA
AGCGGTCCCCTGGGGGCTGTGGCAGCGGGCTTATCCTTCTCTGTTGCCAACCTTGCCGTC
CGACCTCCTCCGCCCCCATGCGGTGACCCCGTCCGTGTCTGTGTCTGTCCATACGTGTGA
GTCCAGCTAAAAAGACAAACAGAACCCGTGGGCCCAGCTCGGAAGGTGCGTGGAGAAGG
CTCCGACGTCTCCGAAGTGCAGCCCTTGGGATGGCATTCCGTTGTGTGCCTTATTCCTGG
AGAATCTGTATACGGCTCGCCTATAGAAATATAGCCTCTTCATGCTGTATTAAAAGGACT
TTTAAAAGC

Gene 229. >ENST00000328784 cDNA sequence

ATGTGGCTGTGCCCTCTGGCCCTCACCCCTCATCTTGATGGCAGCCTCTGGTGCTGCGTGC
GAAGTGAAGGACGTTTTGTGTTGGAAGCCCTGGTATCCCCGGCACTCCTGGATCCACAGGC
CTGCCAGGCAGGGACGGGAGAGATGGTGTCAAAGGAGACCCTGGCCCTCCAGGCCCCATG
GGTCCGCTGGAGAAACACCATGTCTCCTGGGAATAATGGGCTGCCTGGAGCCCCTGGT
GTCCCTGGAGAGCGTGGAGAGAAGGGGAGGCTGGCGAGAGAGGCCCTCCAGGGCTTCCA
GCTCATCTAGATGAGGAGCTCCAAGCCACACTCCACGACTTCAGACATCAAATCCTGCAG
ACAAGGGGAGCCCTCAGTCTGCAGGGCTCCATAATGACAGTAGGAGAGAAGGTCTTCTCC
AGCAATGGGCAGTCCATCACTTTTGATGCCATTTCAGGAGGCATGTGCCAGAGCAGGCGGC
CGCATTGCTGTCCCAAGGAATCCAGAGGAAAATGAGGCCATTGCAAGCTTCGTGAAGAAG
TACAACACATATGCCTATGTAGGCCTGACTGAGGGTCCAGCCCTGGAGACTTCCGCTAC
TCAGATGGGACCCCTGTAACTACACCAACTGGTACCGAGGGGAGCCTGCAGGTGCGGGA
AAAGAGCAGTGTGTGGAGATGTACACAGATGGGCAGTGAATGACAGGAACTGCCTGTAC
TCCCGACTGACCATCTGTGAGTTCTGA

Gene 230. >ENST00000334434 cDNA sequence

ATGGCTATAGATTGTGGTTTGAACCTCCTGGCTGCCCACTGCAGCTCTGGGGCAATGTCA
GTGTTTACGTTTCCTTCAACTTGGCGGCAACAGAGGAAAGGACCTTAGTAGTGGTTGT
GGTCAAGGGTCTTTTGCTTGTATCCTGGGAGCTCCACACCAGAGAGATGTAGGTGAGCAA
TTCCTCAGTGCAATCACCCAGGATGA

Gene 231. >ENST00000334432 cDNA sequence

CCCAAGCAGCTGGAGGCTCTGTGTGTGGGTGCTGATTTCTTGGAGCCTGAAAAGAAAGT
AACACAGCAGGGATGAGGACAGATGGTGTGAGTCAGTGAGAGCAGCGACTGGACCCAGAG
CCATGTGGCTGTGCCCTCTGGCCCTCAACCTCATCTTGATGGCAGCCTCTGGTGCTGTGT
GCGAAGTGAAGGACGTTTTGTGTTGGAAGCCCTGGTATCCCCGGCACTCCTGGATCCACG
GCCTGCCAGGCAGGGACGGGAGAGATGGTCTCAAAGGAGACCCTGGCCCTCCAGGCCCCA
TGGGTCCACCTGGAGAAATGCCATGTCTCCTGGAAATGATGGGCTGCCTGGAGCCCCTG
GTATCCTGGAGAGTGTGGAGAGAAGGGGAGCCTGGCGAGAGGGGCCCTCCAGGGCTTC

FIGURE 1 (CONT'D)

CAGCTCATCTAGATGAGGAGCTCCAAGCCACACTCCACGACTTTAGACATCAAAATCCTGC
AGACAAGGGGAGCCCTCAGTCTGCAGGGCTCCATAATGACAGTAGGAGAGAAGGTCTTCT
CCAGCAATGGGCAGTCCATCACTTTTGATGCCATTGAGGAGGCATGTGCCAGAGCAGGCG
GCCGCATTGCTGTCCCAAGGAATCCAGAGGAAAATGAGGCCATTGCAAGCTTCGTGAAGA
AGTACAACACATATGCCTATGTAGGCCTGACTGAGGGTCCCAGCCCTGGAGACTTCCGCT
ACTCAGACGGGACCCCTGTAACTACACCAACTGGTACCGAGGGGAGCCCGCAGGTCCGG
GAAAAGAGCAGTGTGTGGAGATGTACACAGATGGGCAGTGAATGACAGGAACTGCCTGT
ACTCCGACTGACCATCTGTGAGTTCTGA

Gene 232. >ENST00000329658 cDNA sequence

GGCACTCCTGGATCCACGGCCTGCCAGGCAGGGACGGGAGAGATGGTCTCAAAGGAGAC
CCTGGCCCTCCAGGCCCCATGGGTCCACCTGGAGAAATGCCATGTCTCCTGGAAATGAT
GGGCTGCCTGGAGCCCCTGGTATCCCTGGAGAGTGTGGAGAGAAGGGGGAGCCTGGCGAG
AGGGGCCCTCCAGACAAAGTGGTCAGTGGCCTGACCCGGAATCCTCTGCTCTCAGCCCTC
AGTCTGCAGGGCTCCATAATGACAGTAGGAGAGAAGGTCTTCTCAGCAATGGGCAGTCC
ATCACTTTTGATGCCATTGAGGAGGCATGTGCCAGAGCAGGCGGCCGATTGCTGTCCCA
AGGAATCCAGAGGAAAATGAGGCCATTGCAAGCTTCGTGAAGAAGTACAACACATATGCC
TATGTAGGCCTGACTGAGGGTCCCAGCCCTGGAGACTTCCGCTACTCAGACGGGACCCCT
GTAACTACACCAACTGGTACCGAGGGGAGCCCGCAGGTCCGGGAAAAGAGCAGTGTGTG
GAGATGTACACAGATGGGCAGTGAATGACAGGAACTGCCTGTACTCCGACTGACCATC
TGTGAGTTCTGA

Gene 233. >ENST00000318314 cDNA sequence

GGTGTCTTGGGTGGGGGTGATGGGGTGTGGGATGATGCCAGCCGGCATGGAGGAAATGGG
GTGGCACGGCTATGGGGGTGGCAGGATTCCCCTCCTGTCCCTGCACTGAAGAGAGGAGGG
CTTTGTAGAACCTCTGGGGCAAGTGTGGGAGGCCTGCTGCAGACATGGGGCCAGCGGTC
TCTGCTGCCACAGGGCTTGGCCAGCGCCTGCTCTCAGGTAGTCTGGAGGAAGCCACAG
TCATTGAACCAAGTATCCTTGTCCCACTCCCTCCCTTTTCTAGCCTCTCTTGGGTGGGG
AAGGGGGAGCTCAGTGTCCCCTCCCTTGACCCCTCTGCCTCCACCAGCCTGGAGGTTGG
GCCCAGGCCTGTGGGGGTGGGGAGGTGGCCACCCACTTGGCTGTCCAGCCCTGTCCCAG
ACAGCCCTGTATTCTGTCAGCCTGGGCTTGTTCCTCAACAGGGGTGAGGCTCCTGGGATGG
GCCTGGCTCACCTGGGGCTCTCCCCTGCCCCCAAGTGGTCTTGTCTGCGGAGCCCGAGGC
CCCAATGACTGGAACCTCAATATCTACTTCAACTGCACTGACTTGAACCCAGCCGGGAG
CGCTGCGGGGTGCCCTTCTCCTGTGCGTCAGGGACCTGCGGAGGATGTCTCAACACC
CAGTGTGGCTACGACGTCCGGCTCAAACCTGGAGCTGGAGCAGCAGGGCTTCATCCACACC
AAAGGCTGCGTGGGCCAGTTTGTAGAAGTGGCTGCAGGACAACCTGATTGTGGTGGCGGGA
GTCTTCATGGGCATCGCCCTCCTCCAGATCTTTGGCATCTGCCTGGCCAGAACCTCGTG
AGTGACATCAAGGCAGTGAAAGCCAACTGGAGCAAATGGAATGATGACTTTGAAAACAC
TGGCTTACGCCACCATTTCCGAGGTCTGTCCACGGCGGGGCTCAGCAGAACTCTCTG
ACTGGGGCCCCTGGCCCGCCCCACCCAGCCGACATGTTTTCTTTGGCCTGGGTGGTTTA
TACCCTGAGCCAACCTTTAAAAATTGGTAG

Gene 234. >ENST00000310032 cDNA sequence

CGCGGGGCGCTGGGCCTGGCTCCCGGCTCCGGTTTCCGGGCCGGCGGGTGGCCGCTCACC
ATGCCCGGCAAGCACACAGCATTTCCAGGAACCTGAGGTCCGGCTGCTGCGGGAAATACTTC
CTGTTTGGCTTCAACATTGTCTTCTGGGTGCTGGGAGCCCTGTTCTGGCTATCGGCCTC
TGGGCCTGGGGTGAAGGGCGTTCTCTCGAACATCTCAGCGCTGACAGATCTGGGAGGC
CTTGACCCCGTGTGGCTGTTTGTGGTAGTTGGAGGCGTCATGTCGGTGTGGGCTTTGCT
GGCTGCATTGGGGCCCTCCGGGAGAACACCTTCTGCTCAAGTTTTTCTCCGTGTTCTC
GGTCTCATCTTCTTCTGGAGCTGGCAACAGGGATCCTGGCCTTTGTCTTCAAGGACTGG
ATTTCGAGACCAGCTCAACCTCTTCATCAACAACAACGTCAGGCCTACCGGACGACATT
GACCTCCAGAACCTCATTGACTTTGCTCAGGAATACTGGTCTTGCTGCGGAGCCCGAGGC
CCCAATGACTGGAACCTCAATATCTACTTCAACTGCACTGACTTGAACCCAGCCGGGAG
CGCTGCGGGGTGCCCTTCTCCTGCTGCGTCAGGGACCTGCGGAGGATGTCTCAACACC
CAGTGTGGCTACGACGTCCGGCTCAAACCTGGAGCTGGAGCAGCAGGGCTTCATCCACACC
AAAGGCTGCGTGGGCCAGTTTGTAGAAGTGGCTGCAGGACAACCTGATTGTGGTGGCGGGA
GTCTTCATGGGCATCGCCCTCCTCCAGATCTTTGGCATCTGCCTGGCCAGAACCTCGAG

FIGURE 1 (CONT'D)

CAAATGGAATGATGACTTTGAAAACCACTGGCTTACGCCCACCATTTCCGAGGTCTGTG
CACGGCGGGGCTCAGCAGAACTCTCTGACTGGGGCCCCTGGCCCGGCCCCACCCAGCCG
ACATGTTTTCTTTGGCCTGGGTGGTTTATACCCTGAGCCAACCTTTAAAAATTGGTAGAT
TTCACATAAAAGTCCAGATCCACAGCTTCTCTTGAAGAATGACCACCTGGCTACGCCGGC
TCTTCGGTGGCAACACTACCTGGGACACTGCCTCCCCAGTCACCAAGGGCCCCAGCTGGC
CCGTTCTACTCACCTAAGTGCCGCCTGACCCTTGTA CACTAGGAGCTGGCCTCCACCTC
TGCAGGGTTATTCCCTGCACCTCGAGGCCGCTGCGGGCCAATCTGGAGTGAAACACGGGG
ACCTGAAGGATGGAGAGGCTGGACCCCGCTTTGAAGAGGGTGAGCCTGGGAAGGGCGGC
CTTGCTGGGGACTGCGGTGGGAGTAGAGTGCCAGGAGAGGGTCTGAGGGGTGGGATGGG
GGTCAGGACAATTTTGAAAAGAAGTAGCTGGAAGCCATGGGACTGGCGGGAGCCTGTTT
GGGGGATCTGGATGGTTGACTCCTAGGAGTCAAGTTCAGCATCTTCACCGTGGCTGCAGA
GCTGCCTGATGGGCACTAGAGGGCATGCCAGCCCCACACTCCCTGGGTCTGGCTTCCTCC
CGCAACCTCACTCTAGTAGAGCCTGTGCCTGCCTACTAGCGCTCTGGGGTTCGGAGAGTT
TGGAATTTCTCAGAGCCAACCTGGCTCAGGCTTGGAAGGCTGGCTGCTGCCCTCAGCTC
CGCCTCATCAGCTATGTGAAGGGGTGTGTGTGGAGTGATCCTGCCGCCCCCTCCCTGGGC
TCGTCCAGAGATCTCAAACCTCGATGCCCCCTGGGGCCACGTATGTTGTATAAATGGATGA
AACAGGCCCTTGAGTTGGGAGCCTGCTTCACTTTGACTTTCCCACTGTTGCTGGAGACAA
AGACATCGTGATGAGAGAAAGTTTCGCACAATCTAGTCGGTAACAGCCACTTTCTTGAGA
CCAAGAGAGTGCGGTGGGGATGGGGGGGAGAGCACGGGTCCCGTCTGACAGTGGCCGCT
GCCATATTCAGGTGTAGCTAATTGCTCTGGTGTGGGAATGCAGGCCTAATGACAGAAATC
TGGAGAAGCCAGAAATACAGATTTGTATGTGAGATGTCCTGATTTTTTAAGTTGTTGGCA
GAAATTAATTAGAAATCAAATCTGCAGGCCAAACAAGGTGCAGGACCCAGCTTTGGCCC
CATGCCCCCTGTAGGTCCCTCTGGGACAGTCACCGCTGGGGTCTGGCTGCTCTGTATTG
AGGGATGCTGGGCACTGCTGCCGGGTGGCCAGGGTATGGGGCATGTGCCAGCAATGTGG
CTCCTTGGCCCCGCTGGCCAGTGCTCTGGGCCCCCTGACAGGCGCTGGCTGTGAGTGGTTT
GTACATGCTACAATAAATGCAGCTGGCAGCATT

Gene 235. >ENST00000298564 cDNA sequence

GAGGCCATGAAGCCGACGCCCGCGGCTAGGCCCGGGCGGCTCTAGCCCAGGGCGGGCC
GCGGGGCGCTGGGCCTGGCTCCCGGCTCCGGTTTCCGGGCCGGCGGGTGGCCGCTACCA
TGCCCGGCAAGCACCAGCATTTCAGGAACCTGAGGTGGCTGCTGCGGGAAATACTTCC
TGTTTGGCTTCAACATTGTCTTCTGGTTCTCCGTGTTTCTCGGTCTCATCTTCTTCTGG
AGCTGGCAACAGGGATCCTGGCCTTTGTCTTCAAGGACTGGATTGAGACCCAGCTCAACC
TCTTCATCAACAACAACGTCAAGGCCTACCGGGACGACATTGACCTCCAGAACCTCATTG
ACTTTGCTCAGGAATACGAGGATGTCTCAACACCCAGTGTGGCTACGACGTCCGGCTCA
AACTGGAGCTGGAGCAGCAGGGCTTCATCCACACCAAAGGCTGCGTGGGCCAGTTTGAGA
AGTGGCTGCAGGACAACCTGATTGTGGTGGCGGGAGTCTTCATGGGCATCGCCCTCCTCC
AGGTACCTTTGTGGCCCCACGTGCCCTCCCTTTGCCGGGGCCGCCCCCTCACTCTCCCTC
ACCTGTCTCTGTCTTACAGATCTTTGGCATCTGCCTGGCCAGAACCTCGTGAGTGACA
TCAAGGCAGTGAAAGCCAACCTGGTGA

Gene 236. >ENST00000274797 cDNA sequence

GGCTCCGGTTTCCGGGCCGGCGGGTGGCCGCTCACCATGCCCGGCAAGCACCAGCATTTC
CAGGAACCTGAGGTGGCTGCTGCGGGAAATACTTCTGTTTGGCTTCAACATTGTCTTC
TGGGTGCTGGGAGCCCTGTTCTCTGGCTATCGGCCTCTGGGCCTGGGGTGAGAAGGGCGTT
CTCTCGAACATCTCAGCGCTGACAGATCTGGGAGGCCTTGACCCCGTGTGGCTGTGTGGT
AGTTGGAGGCGTCATGTGGTGCTGGGCTTTGCTGGTGATTGGGGCCCTCCGGGAGAAC
ACCTTCCTGCTCAAGTTTTTCTCCGTGTTTCTCGGTCTCATCTTCTTCTGGAGCTGGCA
ACA

Gene 237. >ENST00000261947 cDNA sequence

GGACTTTGTGTTCCGCTGACCCTCCTCGGGGCGCTTCTCCCGTGCCGCCCTTCCCCTCC
CCCGCCGCGTCTTTCGAGGGCGCTCCCATTCGGTGGGACCGACCCGGGGGGATGGAGGG
GGCACGCTTCTACAACCTCCTGGGACCCCGAAGAGACGCCCGCGTGCGACCTGAGACGC
CGCCCTCGCCGAGGGCCCATGGGCGCGTCCCCACAGGCGGGCAGTGGACGTGAGGGCGGC
GAGCGGCGGGGCGCGGCGTCCAGGAGGGCGCGCTCGGGCTCGGCCCCGCGCAGGCCGC
GCGCGCGCGCTCCCGCCGCGCCCGGGCGCGCCCGCCCCGCTCTAGGCGCGGGCCCCG

FIGURE 1 (CONT'D)

GAGCCCGGTCCGCGAGCAGCGGCGGCTGCCGGAGGGACGATGAGCTGCGCGGGGCGGGCG
GGCCCTGCCCGGCTCGCCGCGCTCGCCCTGCTGACCTGCAGCCTGTGGCCGGCAGGGCA
GACAACGCGAGCCAGGAGTACTACACGGCGCTCATCAACGTGACGGTGAGGAGCCCGGC
CGCGGCGCCCCGCTCAGTTTTCGCATCGACCGCGGGCGCTACGGGCTTGACTCCCCAAG
GCCGAGGTCCGCGGCCAGGTGCTGGCGCCGCTGCCCTCCACGGAGTTGCTGATCATCTG
GGCTGTGATCCACAAACCCGGTTCTTTGTCCCTCCTAATATCAAACAGTGGATTGCCTTG
CTGCAGAGGGGAAACTGCACGTTTTAAAGAGAAAATATCACGGGCCGCTTTCCACAATGCA
GTTGCTGTAGTCATCTACAATAATAAATCAAAGAGGAGCCAGTTACCATGACTCATCCA
GGCACTGGAGATATTATTGCTGTGATGATAACAGAATTGAGGGGTAAAGGATATTTTGA
TATCTGGAGAAAAACATCTCTGTACAAATGACAATAGCTGTTGGAATCGAATGCCACCG
AAGAATTTAGCCGTGGCTCTCTAGTCTTCGTGTCAATATCCTTTATTGTTTTGATGATT
ATTTCTTCAGCATGGCTCATATTCTACTTCATTGAGAAGATCAGGTACACAAATGCACGC
GACAGGAACACGCGTCGTCTCGGAGATGCAGCCAAGAAAGCCATCAGTAAATTGACAACC
AGGACAGTAAAGAAGGGTGACAAGGAAACTGACCCAGACTTTGATCATTGTGCAGTCTGC
ATAGAGAGCTATAAGCAGAATGATGTCGTCCGAATTCCTCCCTGCAAGCATGTTTTCCAC
AAATCCTGCGTGGATCCCTGGCTTAGTGAAACATTGTACCTGTCTATGTGCAAACTTAAT
ATATTGAAGGCCCTGGGAATTGTGCCGAATTTGCCATGTACTGATAACGTAGCATTGAT
ATGGAAAGGCTCACCAGAACCCAAGCTGTTAACCAGAGATCAGCCCTCGGCGACCTCGCC
GGCGACAACCTCCTTGCCCTTGAGCCACTTCGAACCTTCGGGGATCTCACCTCTTCCTCAG
GATGGGGAGCTCACTCCGAGAACAGGAGAAATCAACATTGCAGTAACAAAAGAATGGTTT
ATTATTGCCAGTTTTGGCCTCCTCAGTGCCCTCACACTCTGCTACATGATCATCAGAGCC
ACAGCTAGCTTGAATGCTAATGAGGTAGAATGGTTTTGAAGAAGAAAAACCTGCTTTCT
GACTGATTTTGCCTTGAAGGAAAAAGAACCTATTTTTGTGCATCATTTACCAATCATGC
CACACAAGCATTTATTTTTAGTACATTTATTTTTTATATAAAATTGCTAATGCCAAAGCT
TTGTATT

Gene 238. >ENST00000231683 cDNA sequence

CTCCTGCCCTCCACTGACTCCAGAGAGGGAGATCCCCAGTACTTGACTCCATCACGCAGA
TGGGAGCAGGCACCAGCTATGGAGAGGGATACAGCTGCGTCTCCACATGACCCATCCTGC
ATGACACCAAAGCCACCGCCAGACAGTGCCTCGGATTCTATGCAAAACCTGGGAAGCGGA
GACCTACCCAGCCCCGGGAGGAAGCTAGCTCTTCAGGGGACCGTCTGAGGACTGGAGTT
TGATCCATGAACCTGGCTTCGAGGCCTTGCTTTTTCTCTCTTCCTTCATTATTCATTCC
CAACACCTTAGAAGGTGTTGCTTAATTTATTTCTAGAAAAGCAGCCCAGAGTCAGTCATT
GAAGCCTTCCCCACCCCTGGCCAAAAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
TCTGTTGGGAGCTTGGAGTCCAGTGGTTGGCATAGTTGTCACATTGGGAGCAGAGAAGAA
GCAACCAGGGGCCCTGATCAGGGGACTGAGCCGTAGAGTCCCAGGATGGCACCCAATGGC
ACAGCCTCTTCCTTTTGCTGGACTCTACCGCATGCAAGATCACCATCACCGTGGTCCTT
GCGGTCTCATCCTCATACCGTTGCTGGCAATGTGGTCGTCTGTCTGGCCGTGGGCTTG
AACCGCCGGCTCCGCAACCTGACCAATTGTTTCATCGTGTCTTGGCTATCACTGACCTG
CTCCTCGGCCTCCTGGTGTGCCCTTCTCTGCCATCTACCAGCTGTCTTGCAAGTGGAGC
TTTGGCAAGGTCTTCTGCAATATCTACACAGCCTGGATGTGATGCTCTGCACAGCCTCC
ATTCTTAACCTCTTCATGATCAGCCTCGACCGGTACTGCGCTGTGATGGACCCAATGCGG
TACCCTGTGCTGGTCACCCAGTTCCGGTTCGCCATCTCTCTGGTCTTAATTTGGGTATC
TCCATTACCTGTCTTTCTGTCTATCCACCTGGGGTGGAACAGCAGGAACGAGACCAGC
AAGGGCAATCATACCACCTCTAAGTGCAAAGTCCAGGTCAATGAAGTGACGGGCTGGTG
GATGGGCTGGTCACCTTCTACCTCCCGCTACTGATCATGTGCATCACCTACTACCGCATC
TTCAAGGTGCGCCGGGATCAGGCCAAGAGGATCAATCACATTAGCTCCTGGAAGGCAGCC
ACCATCAGGGAGCACAAAGCCACAGTGACA CTGGCCGCCGTATGGGGGCCTTCATCATC
TGCTGGTTTTCCCTACTTCACCGCTTTGTGTACCGTGGGCTGAGAGGGGATGATGCCATC
AATGAGGTGTTAGAAGCCATCGTTCTGTGGCTGGGCTATGCCAACTCAGCCCTGAACCCC
ATCCTGTATGCTGCGCTGAACAGAGACTTCCGCACCGGGTACCAACAGCTCTTCTGCTGC
AGGCTGGCCAAACCGCAACTCCCAAAAACCTTCTCTGAGGTCCAACGCCTCTCAGCTGTCC
AGGACCCAAAGCCGAGAACCCAGGCAACAGGAAGAGAAACCCCTGAAGCTCCAGGTGTGG
AGTGGGACAGAAGTCACGGCCCCCAGGGAGCCACAGACAGGTAATAGCCCTAGCCATTG
GTGCACAGGATGGGGGCAATGGGAGGGGATGCTACTGATGGGAATGATTAAGGGAGCTGC

FIGURE 1 (CONT'D)

TGTTTAGGTGGTGGTCTGGTTTATGTTCTAGGAACTCTTCATGAGCACTTTGTAAACACCCT
 CTTGCTTAATCCTCCCAACGGCCCCCAAAGGTAGAACTTAGCTCCCTTTTAAAAGGAGCA
 CATTAAAATTCTCAGAGGACTTGGCAAGGGCCGCACAGCTGGGGCCT
 Gene 239. >ENST00000261956 cDNA sequence
 GGACCTGGGGGTGATCTCCAGCATCTCGCTGTCTGGTTCCCTGACCCTCTTCCTCAGCGT
 CATGCCCTTCGAGAGCGCCGTGGTTCATCGTCGACTGCTTTTTCTATGAGGGCATCAAGGT
 GATCCTGCAGGTGGCCCTGGCCGTCTGGACGCCAACATGGAGCAGCTGCTGGGCTGCAG
 CGACGAGGGCGAGGCATGACCATGTCTGGGCAGATACCTGGATAATGTGGTCAACAAGCA
 GAGTGTCTCTCCTCCTATCCCGCACCTCCGTGCCCTTGCTGAGCAGCAGCGATGACCCCCC
 TGCAGAGGTGGAATCTTTGAGCTCCTGAAAGTGTCTATGAGAAATTGAGCAGCCTGAG
 GGCCGAAGACATTGAGCAGATGCGGTTTAAACAGAGGCTGAAAGTGATCCAGTCCCTGGA
 GGAACACGGCCAAAGAGGAGTGTGGTCCGAGCTATACCTGTGGACATTGGTTTCTCCATTGA
 AGAGCTGGAGGACCTTTACATGGTGTTTAAAGGCCAAGCACCTGGCTAGCCAGTACTGGGG
 GTGCAGCCGCACAATGGCCGGCCGTGGGACCCAGCCTGCCCTACCTGGAGCAGTACCG
 GATTGATGCCAGCCAGTTCCGGAACTCTTTGCCAGCCTGACACCCTGGGCCTGTGGCTC
 CCACACACCTCTGCTGGCAGGGCGCATGTTGAGGCTCCTGGACGAAAACAAGGACTCGCT
 GATCAACTTCAAGGAGTTCTGTACAGGGATGAGCGGGATGTACCAAGGGGACCTGACAGA
 GAAGCTCAAGGTGCTCTACAAGCTACACCTTCCCCAGCTCTGAGCCAGAGGAAGCCGA
 GTGAGCCCTGGAGGCGGCCATTATTTACAGAGGACAGCTCCTCAGAAGAAGCACTACC
 ACAGGAAGAGCAAGAAGGAAGTGAAGTGAGGAGAGAGGAGAGGAGAAGGGGACAGCTC
 TCCGGAATATCGGCACTACCTTCGAATGTGGGCCAAGGAGAAAGAGGCTCAGAAGGAGAC
 GATTAAGGATCTTCCCAAGATGAACCAGGAGCAGTTATTGAGCTGTGCAAGACGCTTTA
 CAAATGTTTCAAGTGAAGACCCCATGGAGCAGGACCTGTACACGCCATCGCCACCGTGGC
 CAGCCTCCTGCTCCGCATCGGAGAGGTGGGGAAGAAGTTCTCAGCCCGCACAGGCAGGAA
 GCCCAGGGACTGTGCCACTGAGGAGGACGAGCCACCAGCACCCGAACTGCATCAGGACGC
 AGCCAGGGAGCTTCAGCCCCAGCTGCAGGAGACCCCAAGCCAAAGCAGGCGGAGACAC
 ACACCTCGGAAAAGCCCCACAGGAGAGCCAGGTGGTGGTGGAGGGGGGAGCGGCGAGGG
 ACAGGGCTCACCTCTCCAGCTGCTGTCTGACGATGAAACCAAAGACGACATGTCCATGTC
 CTCTACTCGGTGGTCAACAGGGCTCCCTGCAATGTGAAGACCTTGACAGCAGACCGGT
 GCTGGTGGGCGGGGAGGCTGCAGCCCCACAGCGCGCATCGGCGGCACCGTCGACACCGA
 CTGGTGCATCTCCTTTGAGCAGATCCTGGCCTCCATCCTGACGGAGTCCGTGCTGGTGAA
 CTTCTTTGAGAAGAGAGTGGACATTGGACTCAAGATCAAGGACCAAAAGAAAGTGGAGAG
 ACAGTTGAGCACCGCCAGTGACCATGAGCAGCCTGGAGTTTCCGGCTGATGCCTGCAGCT
 GTGAGGCCTGGCCCAAGGTGTGATCAGTGGGGCTGGCCTCATCTCCTCCTGCCTTTCTC
 CCTTATCAGTTTTCTCTTTAAAGGTGTGCCCCCTCCTGCTCTCCAGGAGCAGTGAGTTGTG
 AGTGGAAGAAGGCTGGTGCAGACCCAGCTGCCTTAGACAGATTCCCTGGGCCTGCATCT
 CCTGGCGCCGGCTGCTTCTGGGCCCAGGAAGAGGCTGTGGCTCCACCTTCTTTACACCT
 GGTGGGAGCCCGCCTCGCACCAGCTGCACCTGCCTAGCATTACAGGCTCTCAGATCTGCC
 CTTGCTTGCTCATACCTCTGTGCTCCACACTGCGGCCAGGCCAGCTGAGTCCCTCCATC
 CGTGGATGCTTTCTGCGAGCTATGTGGTATGGGGGTATTCTGCTCTTTGGCACCAGGT
 TGGGGGGCATGTGCTTGTGGGACCAAAGTGATGGAACCTCAGGTGCTCTCCGGGAGC
 CTGAACCTCCTGACTGAGGAACATGGGCAGAACATGTTTATTGCACAGAGTGGGCGCTGC
 GCACAGGCGTGGCTGTACACGTGCTCTCAGCTCATCATCTTTTCAGTAACCTTTAAAAAA
 ACATCCCTCAGGTCTGATATATTTCTTTGGATTCAATTTCACTTGGCTAGAAATTACACT
 GTGCTCAATGCCTTAATAAATCCCTGAAAGAAATAAAAAACCACTGTGTGCAATGCCTTGC
 TGTGGCCCCCAACCACTGCTTAGGCCTCCCAACTTCTCCCCAGGCCAAGTATGGGGCCCT
 GGCTGTGTTCTGGAAGTTCAAGACACTTAGTCTCCACAGTGGGTGGAAGAGTGCAAGGT
 CTGCCAGGTGAGATGGAGACGAGAACCTGCTGGTGAAGCTGGGAGGTCCTGACCAAC
 CTGCATCAGGGGATGCCCTGAGCTCCACAGGTCTTCATGGGAGGGGTTGTGGGTCTGG
 TGAAGGAAGTGATCCTCAGGCCTGGGCTGTAGCAAGCTGTCTGCCCTTGGGTTCAAGAA
 CCAGACTGTGGAGCCAAAGGTGACCGAGGGGGCCCCAGGGCTGGAGCCACAAGGATACC
 CTCACCTTGCATGAGGAGCTGAAACTGACCAAGTGTCCAGTGTTAGCCCCACATGGGGCT
 GCTCTTGCTTCTACTAAAAGATACAGCAGTTACCCCCCTTATCCACAGGGGATACAGTGGA
 TATCTAAAACAGACCCCCAGTGGATGTCTAAAACACAGATAATAACAAACCTTATACA

FIGURE 1 (CONT'D)

TACTGTTTTTTCCTATGCATACATACCTGTGATTAAGTTTATGAATTAGGCACCTTAAGA
GATTGACAACAATAACTAATAATAAAATGTAACGGTTATACTGT

Gene 240. >ENST00000312107 cDNA sequence

CGCGGGCCTCGGCCCCGGTGCAGAGCGGCTCCGCGATGTGGCTGAGCCCGAGGAGGTGCTG
GTGGCCAATGCGCTGTGGGTGACGGAGCGGGCCAACCCCTTCTTCGTGCTGCAGCGACGC
CGGGGCCACGGCAGGGGCGGCGGCCTTACGGGTCTTCTCGTGGGCACCCTGGACGTGGTG
CTGGACTCCAGTGCCCCGCTGGCCCCCTTACCGCATCCTGCACCAGACCCAGGACTCCCAG
GTCTACTGGACAGTGGCGTGTGGTTCTTCCCGCAAAGAGATCACAAAACACTGGGAATGG
CTGGAATAAATACTTGCTCCAGACACTGTCCATCTTCGACAGTGAGGAAGATATCACCACC
TTCGTCAAGGGCAAGATACACGGAATCATCGCAGAAGAGAACAAGAACCTGCAGCCCCAG
GGAGACGAGGACCCCGGAAGTTCAAGGAGGCTGAGCTGAAGATGCGGAAGCAGTTTGGG
ATGCTGAGGGCGAGAAGCTGGTGAATTACTACTCCTGCAGCTACTGGAAGGGCCGCGTG
CCCCGGCAGGGCTGGCTGTACCTGACGGTCAACCACCTGTGCTTCTACTCCTTCCTGCTG
GGGAAGGAAGTGAGCCTCGTGGTGCAGTGGGTGGACATAACGCGTCTGGAGAAGAACGCC
ACCCTGCTCTTCCCCGAGAGCATCCGTGTGGACACCCGCGACCAGGAGCTCTTCTTCTCC
ATGTTCTCAACATCGGCGAGACCTTCAAGCTCATGGAGCAGTTGGCCAACCTGGCCATG
CGGCAGCTGCTGGACAGCGAGGGCTTCTGAGGAGACAAGGCCCTGCCTAGGCCCATCCGG
CCACACAGGAACATCTCAGCCCTGAAGCGAGACCTGGACGCCCCGAGCCAAGAATGAGTGC
TACCAGCCACGTTCCGGCTGCCAGGGATGAGCGGCTAGACGGCCACACAAGCTGCACC
CTGTGGACGCCGTTCAACAAGCTGCACATCCCTGGCCAGATGTTTCTCACAACACTAC
ATCTGCTTCGCCAGCAAGGAGGAGGACGCTTGCCACCTCATCATACCCCTGAGGGAGGTG
ACCATTGTGAAAAAGCTGACAGCTCCAGCGTGTGCCCAGCCCCCTGTCCATCAGCACC
AAAAGCAAAATGACATTCTGTTTGCCAACCTGAAAGACCGTGATTTCTTGGTGCAGAGG
ATCTCTGACTTCCCTCCAGAAAAACCATCCAAGCAGCCAGGCAGTATCGGGAGCAGGAAA
GCCAGTGTTGTGGACCTAGCACAGAGTCTTCCCCAGCTCCTCAGGAGGGGTGCGAGCAG
CCCCGCCAGCCAGCCTCTCCCTCAGCAGCCGCCAGAGCTTCTGTGCGCAGGAGGCGCCA
ACCGCATCCCAGGGCCTGCTGAAGCTCTTCCAGAAAACTCGCCCATGGAGGACCTTGGA
GCCAAGGGGGCCAAGGAGAAGATGAAAGAGGAGTCATGGCACATCCACTTCTTCGAGTAC
GGGCGTGGCGTGTGCATGTACCGCACAGCCAAGACGCGGGCACTGGTCTGAAGGGTATC
CCTGAGAGCCTCCGGGGAGAGCTGTGGCTCCTCTTCTCCGGGGCCTGGAATGAGATGGTG
ACTACCCCGGGTACTATGCTGAGCTGGTGGAGAAGTCCACCGGGAAGTACAGCCTGGCC
ACAGAGGAGATCGAGCGAGACCTGCACCGCTCCATGCCCCGAGCACCTGCCTTCCAGAAC
GAGCTGGGGATTGCTGCCCTCCGGCGGGTGCTGACTGCCTATGCCTTCCGAAACCCACC
ATCGGCTACTGCCAGGCAATGAACATCGTGACCTCGGTGCTCCTGCTCTATGGCAGTGAG
GAGGAGGCCTTCTGGCTCCTGGTGGCCCTGTGCGAGCGCATGCTGCCCGACTACTACAAC
ACCAGGGTGGTGGGAGCCCTGGTGGACCAAGGCATCTTCAAGAGCTCACGAGAGACTTC
CTGCCGAGCTCTCGGAGAAGATGCAGGACCTGGGGGTGATCTCCAGCATCTCGCTGTCC
TGTTTCTGACCTCTTCTCAGCGTCATGCCCTTCGAGAGCGCCGTGGTCATCGTCGAC
TGCTTTTTTCTATGAGGGCATCAAGGTGATCCTGCAGGTGGCCCTGGCCGTCTTGACGCC
AACATGGAGCAGCTGCTGGGCTGCAGCGACGAGGGCGAGGCCATGACCATGCTGGGCAGA
TACCTGGATAATGTGGTCAACAAGCAGAGTGTCTCTCCTCCTATCCCGCACCTCCGTGCC
TTGCTGAGCAGCAGCGATGACCCCCCTGCAGAGGTGGACATCTTTGAGCTCCTGAAAGTG
TCCTATGAGAAATTGAGCAGCCTGAGGGCCGAAGACATTGAGCAGATGCGGTTTTAAACAG
AGGCTGAAAGTGATCCAGTCTTGGAGGACACGGCCAAGAGGAGTGTGGTCCGAGCTATA
CCTGTGGACATTGGTTTCTCCATTGAAGAGCTGGAGGACCTTTACATGGTGTTTAAGGCC
AAGCACCTGGCTAGCCAGTACTGGGGGTGCAGCCGCACAATGGCCGGCCGTGGGACCCCC
AGCCTGCCCTACCTGGAGCAGTACCGGATTGATGCCAGCCAGTTCGGGGAACCTTTTGCC
AGCCTGACACCTGGGCCTGTGGCTCCCAACACCTCTGCTGGCAGGGCGCATGTTCAGG
CTCCTGGACGAAAAAAGGACTCGCTGATCAACTTCAAGGAGTTCGTGACAGGGATGAGC
GGGATGTACCACGGGGACCTGACAGAGAAGCTCAAGGTGCTCTACAAGCTACACCTTCCC
CCAGCTCTGAGCCCAGAGGAAGCCGAGTCAGCCCTGGAGGCGGCCATTATTTACAGAG
GACAGCTCCTCAGAAGCATCTCCTCTGGCCTCAGATCTGGATCTTTTCTGCCCTGGGAG
GCTCAAGAAGCACTACCACAGGAAGAGCAAGAAGGAAGTGGAAGTGAGGAGAGAGGAGAG
GAGAAGGGGACCAGCTCTCCGACTATCGGCACTACCTTCGAATGTGGGCCAAGGAGAAA

FIGURE 1 (CONT'D)

GAGGCTCAGAAGGAGACGATTAAGGATCTTCCCAAGATGAACCAGGAGCAGTTTATTGAG
CTGTGCAAGACGCTTTACAAATGTTTCAAGTGAAGACCCCATGGAGCAGGACCTGTACCAC
GCCATCGCCACCGTGGCCAGCCTCCTGCTCCGCATCGGAGAGGTGGGAAGAAGTTCTCA
GCCCCACAGGCAGGAAGCCAGGGACTGTGCCACTGAGGAGGACGAGCCACCAGCACCC
GAACTGCATCAGGACGCAGCCAGGGAGCTTCAGCCCCCAGCTGCAGGAGACCCCCAAGCC
AAAGCAGGCGGAGACACACACTCGGAAAAGCCCCACAGGAGAGCCAGGTGGTGGTGGAG
GGGGCAGCGGCGAGGGACAGGGCTCACCTCCCAGCTGCTGTCTGACGATGAAACCAA
GACGACATGTCCATGTCTCTACTCGGTGGTCAGCACGGGCTCCCTGCAATGTGAAGAC
CTTGACAGACGACACGGTGTGGTGGGCGGGAGGCCTGCAGCCCCACAGCGCGCATCGGC
GGCACCGTTCGACACCGACTGGTGCATCTCTTTGAGCAGATCCTGGCCTCCATCCTGACG
GAGTCCGTGCTGGTGAATTTCTTTGAGAAGAGAGTGGACATTGGACTCAAGATCAAGGAC
CAAAAGAAAGTGGAGAGACAGTTTACGACCCGAGTGACCATGAGCAGCCTGGAGTTTCC
GGCTGATGCTGCAGCTGTGAGGCCTGGCCCAAGGTGTATCAGTGGGGCTGGCCTCATC
TCCTCCTGCCTTTCTCTCCCTTATCAGTTTCTCTTTAAAGGTGTGCCCCCTCCTGCTCTCC
AGGAGCAGTGAGTTGTGAGTGGAAAGAAGGCTGGTGCAGACCCAGCTGCCTTAGACAGAT
TCCTTGGGCTGCATCTCCTGGCGCCGGCTGCTTCTGGGCCAGGAAGAGGCTGTGGCTC
CCACCTTCTTACACCTGGTGGGAGCCCGCCTCGCACCAGCTGCACCTGCCTAGCATTAC
AGGCTCTCAGATCTGCCCTTGCTTGCCTCATACCTCTGTGCTCCACACTGCGGCCAGGCC
AGCTGAGTCCCTCCATCCGTGGATGCTTTCTGTCAGCTATGTGGTATGGGGGTATTCTT
GCCTCTTGGCACCAGGTTGGGGGGCATGTGCTTGTGGGCACCAAGTGATGGAACCTC
AGGTGCTCTCCGGGAGCCTGAACCTCCTGACTGAGGAACATGGGCAGAACATGTTTATTG
CACAGAGTGGGCGCTGCGCACAGGCGTGGCTGTACAGTGTCTCTCAGCTCATCATCCTTT
CCAGTAACCTTTAAAAAATCATCCCTCAGGTCTGATATATTTCTTGGATTCAATTTCACT
TGGCTAGAAATTACACTGTGCTCAATGCCTTAATAAATCCCTG

Gene 241. >ENST00000274620 cDNA sequence

CGGCAGGCATTTCAGGCGGACAGAAACGGGGCTTGGCGCCCCCGCGTGACGCTGTGCTA
GCCCAGGCAGGAGGGAGCGCCTCGGCGGAGGAGTCAAGGAAGAGGGGGAGGGAGAAACGC
GCCAGAACCTCGGCCCCGGGCGCCCTCGTCCGGCCGCGGAGGAGCTGCAGCCTCCAACAGGA
AGGTGTGGTCCCTGCCATGCTATCTGCTCTGCTCAGCGACTGAAGGTGCCCCGATCCCAG
CTCTGCCAGGAAGCAAAGGTTGTACATCTTCCCAAGCCAGGCCAGCCAGGAGCGCTGCA
TGCAAAATCTGCCGTGGGCTAAGGCACGCTAACCAGAGCCGGCGGCATGGACTTCGTTCAT
GAAGCAGGCCCTTGGAGGGGCAACAAGGACATGGGGAAGATGCTGGGGGGAGAGGAGGA
GAAGGACCCCCGACGCGCAGAAAAAGGAGGAGGAGCGGCAGGAGGCGCTGCGGCAGCAGGA
GGAGGAGCGTAAGGCCAAGCACGCGCGCATGGAGGCGGAGCGGGAGAAGGTCCGGCAGCA
GATCCGAGATAAGTATGGGCTGAAGAAGAAGGAGGAGAAGGAAGCAGAGGAGAAAGCAGC
CCTGGAGCAGCCCTGCGAGGGGAGCCTGACCCGGCCCAAGAAGGCCATCCCTGCGGGCTG
CGGGGACGAGGAGGAGGAGGAAGAGGAGAGCATCCTGGACACGGTGTCAAATACCTGCC
CGGGCCGCTGCAGGACATGTTCAAGAAGTAACCAGGCCTCCTGCCCCAGCCTACTCCACC
TGTTACTACTTCTTTTTGGTTCTTTCTTTTCTTTTATTAGGTTAAGTCTCAATTCTGAA
GGGGAACCTCAGTTGGCCTCTGCCCTCTTCCCTGGCCAGGGGCTTCTCCCCCTCAGC
TCTCCCTCACACCTCCCTTCATCCCAGGGTATCC

Gene 242. >ENST00000231229 cDNA sequence

AGAACAGCGCAGTTTGCCTCCGCTCACGCAGAGCCTCTCCGTGGCTTCCGCACCTTGAG
CATTAGGCCAGTTCTCCTCTTCTCTAATCCATCCGTACCTCTCCTGTTCATCCGTTTC
CATGCCGTGAGGTCCATTACAGAACACATCCATGGCTCTCATGCTCAGTTTGGTCTGA
GTCTCCTCAAGCTGGGATCAGGGCAGTGGCAGGTGTTTGGGCCAGACAAGCCTGTCCAGG
CCTTGGTGGGGGAGGACGCAGCATTCTCCTGTTTCTGTCTCCTAAGACCAATGCAGAGG
CCATGGAAGTGCGGTTCTTCAGGGGCCAGTTCTCTAGCGTGGTCCACCTCTACAGGGACG
GGAAGGACCAGCCATTTATGCAGATGCCACAGTATCAAGGCAGGACAAAACCTGGTGAAGG
ATTCTATTGCGGAGGGGCGCATCTCTGAGGCTGGAAAACATTAAGTGTGTGGATGCTG
GCCTCTATGGGTGCAGGATTAGTTCCAGTCTTACTACCAGAAGGCCATCTGGGAGCTAC
AGGTGTGAGCACTGGGCTCAGTTCTCTCATTTCCATCACGGGATATGTTGATAGAGACA
TCCAGCTACTCTGTGAGTCTCGGGCTGGTTCCCCCGGCCACAGCGAAGTGGAAAGGTG
CACAAGGACAGGATTTGTCCACAGACTCCAGGACAAACAGAGACATGCATGGCCTGTTTG

FIGURE 1 (CONT'D)

ATGTGGAGATCTCTCTGACCGTCCAAGAGAACGCCGGGAGCATATCCTGTTCCATGCGGC
 ATGCTCATCTGAGCCGAGAGGTGGAATCCAGGGTACAGATAGGAGATACCTTTTTTCGAGC
 CTATATCGTGGCACCTGGCTACCAAAGTACTGGGAATACTCTGCTGTGGCCTATTTTTTG
 GCATTGTTGGACTGAAGATTTTCTTCTCCAAATTCCAGTGTAAGCGAGAGAGAGAAGCAT
 GGGCCGGTGCCTTATTCATGGTTCCAGCAGGGACAGGATCAGAGATGCTCCACATCCAG
 CTGCTTCTCTTCTTCTAGTCCTAGCCTCCAGGGGCCCAGGCCCAAAAAGGAAAATCCAG
 GCGGAACTGGACTGGAGAAGAAAGCACGGACAGGCAGAATTGAGAGACGCCCGGAAACAC
 GCAGTGGAGGTGACTCTGGATCCAGAGACGGCTCACCCGAAGCTCTGCGTTTCTGATCTG
 AAACTGTAAACCATAGAAAAGCTCCCCAGGAGGTGCCTCACTCTGAGAAGAGATTTACA
 AGGAAGAGTGTGGTGGCTTCTCAGAGTTTCCAAGCAGGGAAAATTACTGGGAGGTGGAC
 GGAGGACACAATAAAAGGTGGCGCGTGGGAGTGTGCCGGGATGATGTGGACAGGAGGAAG
 GAGTACGTGACTTTGTCTCCGATCATGGGTACTGGGTCTCAGACTGAATGGAGAACAT
 TTGTATTTTACATTAAATCCCCTTTTATCAGCGTCTTCCCAGGACCCACCTACAAAA
 ATAGGGGTCTTCTGGACTATGAGTGTGGGACCATCTCCTTCTTCAACATAAATGACCAG
 TCCCTTATTTATACCTGACATGTGCGTTTGAAGGCTTATTGAGGCCCTACATTGAGTAT
 CCGTCTATAATGAGCAAAATGGAATCCCATAGTCATCTGCCAGTCAACCAGGAATCA
 GAGAAAGAGGCCTCTTGGCAAAGGGCCTCTGCAATCCCAGAGACAAGCAACAGTGAGTCC
 TCCTCACAGGCAACCACGCCCTTCTCCCCAGGGGTGAAATGTAGGATGAATCACATCCC
 ACATTCTTCTTTAGGGATATTAAGGTCTCTCTCCAGATCAAAGTCCCGCAGCAGCCGG
 CCAAGGTGGCTTCCAGATGAAGGGGGACTGGCCTGTCCACATGGGAGTCAGGTGTCTG
 CTGCCCTGAGCTGGGAGGGAAGAAGGCTGACATTACATTTAGTTTGCTCTCACTCCATCT
 GGCTAAGTGATCTTGAAATACACCTCTCAGGTGAAGAACCGTCAGGAATTCCCATCTCA
 CAGGCTGTGGTGTAGATTAAGTAGACAAGGAATGTGAATAATGCTTAGATCTTATTGATG
 ACAGAGTGTATCCTAATGGTTTTGTTTATTATATTACACTTTTCAGT

Gene 243. >ENST00000330037 cDNA sequence

CAGCAGAAAACCAATGCTGTTAAGAAATTACATAAATGTGATGAATGTGGGAAATCCTTC
 AAATATAATTCCCGCCTTGTTCAACATAAAAATTATGCACACTGGGGAAAAGCGCTATGAA
 TGTGATGACTGTGGAGGGACTTTCCGGAGCAGCTCGAGCCTTCGGGTCCACAAACGGATC
 CACACTGGGGAGAAGCCGTACAAGTGTGAGGAATGTGGGAAAGCCTACATGTCTACTCC
 AGCCTTATAAAACCAAAAAGCACCCATTCTGGGGAGAAGAACTGTAAATGTGATGAATGT
 GGAAATCCTTCAATTATAGCTCTGTTCTGGACCAGCATAAAAGGATCCACACTGGGGAG
 AAGCCCTATGAATGTGGTGTGAGTGTGGGAAGGCCTTCAGGAACAGCTCTGGGCTCAGAGTC
 CACAAAAGGATCCACACGGGGGAGAAGCCCTATGAATGCGACATCTGTGGGAAAACCTTC
 AGTAACAGCTCTGGCCTTAGGGTCCATAAAAGGATCCACACAGGTGAGAAAACCTTACGAA
 TGTGATGAGTGTGGGAAGGCCTTCATTACTTGTAGAACACTTCTCAACCATAAAAAGCATC
 CACTTTGGAGATAAACCTTATAAATGTGATGAGTGTGAGAAATCTTTTAATTATAGCTCT
 CTTCTCATTACAGCATAAAGTCATCCACTGGAGAGAAAACCTTATGAATGTGATGAATGT
 GGGAAAGGCTTTTCAAGAACAGCTCAGGCCTCATAGTGCATAAAAGGATCCACACAGGAGAG
 AAACCTTACAAGTGTGATGTCTGTGGCAAAGCATTAGCTATAGCTCAGGCCTCGCAGTC
 CATAAAAGCATTACCCCTGGGAAGAAAGCCCATGAATGTAAGGAGTGTGGGAAATCCTTT
 AGTTATAACTCACTACTTCTTCAACACAGAACTATTATACCCGGAGAGAGACCTTATGTA
 TGTGATGTGTGTGGGAAAACGTTTCAAGAAACATGCAGGCCTCAAAGTCCACAGGAGGCTC
 CATACTGGGGAAAACCATATAAGTGTGATGTGTGTGGGAAAGCCTATATCTCACGCTCT
 AGCCTTAAAAATCAAAAGGAATCCACCTTGGGGAGAAGCCCTATAAATGTAGCTATTGT
 GAGAAATCCTTCAACTACAGCTCTGCCCTTGAAACAGCATAAAAGGATTATACACAGGGAA
 AAACCTTTGGGTGTGATGAGTGTGGTAAAGCTTTTCAAGAAATAATTCTGGCCTTAAAGTA
 CATAAACGAATCCACACTGGGGAACGACCTTACAAATGTGAAGAATGTGGGAAAGCATAAC
 ATCTCTCTCTCGAGCCTTATAAATCATAAAAGTGTACACCTGGGGAGAAGCCCTTTAAG
 TGTGACGAGTGTGGGAAGGCCTTCAGGAACAGCTCAGGCCTCACAGTGCATAAAAGGATC
 CACACAGGTGAGAAAACCTATGAATGTGATGAGTGTGGGAAGGCATACATCTCACACTCA
 AGTCTTATCAATCATAAAAGTGTCCACCAGGGGAAGCAGCCCTATAATTGTGAGTGTGGG
 AAATCCTTCAATTATAGATCAGTCCTTGACCAGCACAAAAGGATCCCACTGGAAAGAAG
 CCATACCGATGTAATGAGTGTGGTAAGGCTTTTAATATCAGATCAAATCTCACCAGCAT
 AAAAGAACCCATACTGGAGAGGAA

FIGURE 1 (CONT'D)

Gene 244. >ENST00000302108 cDNA sequence

GAGGATGAGGAACCAACTGAAGAATATGAAAATGTTGGAAATGCAGCATCTAAGTGGCCA
AAAGTGGAGGATCCTATGCCTGAATCTAAGGTTGGTGACACATGTGTTTGGGATAGCAAG
GTAGAGAATCAACAGAAAAAGCCTGTGGAAAAAGGATGAAGGAGGACAAAAGCAGCATC
AGGGAAGCAATCAGCAAAGCCAAGAGTACAGCAAATATAAAGACAGAACAGGAAGGCAAA
CGTGTGGAGAACATTAATGGAACCTCCTACCTAGTCTACAGCAGAAAACCAATGCTGTT
AAGAAATTACATAAATGTGATGAATGTGGGAAATCCTTCAAATATAATTCCCGCCTTGTT
CAACATAAAATTATGCACACTGGGGAAAAGCGCTATGAATGTGATGACTGTGGAGGGACT
TTCCGGAGCAGCTCGAGCCTTCGGGTCCACAAACGGATCCACACTGGGGAGAAGCCGTAC
AAGTGTGAGGAATGTGGGAAAGCCTACATGTCCTACTCCAGCCTTATAAACCACAAAAGC
ACCCATTCTGGGGAGAAGAAGCTGTAAATGTGATGAATGTGGAAAATCCTTCAATTATAGC
TCTGTTCTGGACCAGCATAAAAGGATCCACACTGGGGAGAAGCCCTATGAATGTGGTGAG
TGTGGGAAGGCCTTCAGGAACAGCTCTGGGCTCAGAGTCCACAAAAGGATCCACACGGGG
GAGAAGCCCTATGAATGCGACATCTGTGGGAAAACCTTCAGTAACAGCTCTGGCCTTAGG
GTCCATAAAAGGATCCACACAGTCATCCACACTGGAGAGAAAACCTTATGAATGTGATGAA
TGTGGGAAGGCCTTCAGGAACAGCTCAGGCCTCATAGTGCATAAAAGGATCCACACAGGA
GAGAAACCTTACAAGTGTGATGTCTGTGGCAAAGCATTAGCTATAGCTCAGGCCTCGCA
GTCCATAAAAGCATTACCCCTGGGAAGAAAGCCCATGAATGTAAGGAGTGTGGGAAATCC
TTTAGTTATAACTCACTACTTCTTCAACACAGAACTATTATACCGAGAGAGACCTTAT
GTATGTGATGTGTGTGGGAAAACGTTTCAAGAAACATGCAGGCCTCAAAGTCCACAGGAGG
CTCCATACTGGGGAAAAACCATATAAGTGTGATGTGTGTGGGAAAGCCTATATCTCACGC
TCTAGCCTTAAAAATCACAAAGGAATCCACCTTGGGGAGAAGCCCTATAAATGTAGCTAT
TGTGAGAAATCCTTCAACTACAGCTCTGCCCTTGAACAGCATAAAAGGATTATACACAGG
GAAAAACCTTTGGGTGTGATGAGTGTGGTAAAGCTTTCAGAAATAATTCTGGCCTTAAA
GTACATAAACGAATCCACACTGGGGAAACGACCTTACAAATGTGAAGAATGTGGGAAAGCA
TACATCTCTCTCTCGAGCCTTATAAATCATAAA

Gene 245. >ENST00000333055 cDNA sequence

GGCTTTTGAAGTACTGAGTGGATGTGGGAATGTTGTGGAAGACTTCTGGCCTGCCATTTCTCTGA
GAACGGGACTGCTGAGAGAGGAGCTGGGAGGAGCACTGCAAATTTCACTTTGGACACGTG
AGTCAGAGAAATCTGCCTCCTGGGCCATGCCGCTTCTAAGGCCTGTTTCTTCTCATGAGC
CCCAGCACAAAGACAGATGGGCCAGTTCTCACAGTGGATAACTTCCCCTGCCTGAGCAAGA
GATGGGATAGTATCTGGGATCTGTCCATCACACAGACTCTGAGCTTAATAAGGCAGCTGAA
TGAAGGGAGGTAAACGGACCCCTGAGAGGGGCACTGAAGTCTGCAGTGGGGGGGGAGGGGC
CTGGACACACCCCTTCCCCCCCAGACTCCTCCCCGTGAGGGTCACTCAGCCATGGACTT
TGGACCTGGATAAGAAGAGAGAAGCTGCACTTTGGTGGATCTGATTTGGGATTCTCAGTT
TTGAAAATGGAGTGTGAATGGGGATTTGATGATCTCCTGGAGAGCAACTGAGACAAGAG
AAGAAAGGTGCATGGCTGCCTCCTAATCCCATAGTCCAGAGGAGGCATCCCTAGGACTGC
GGGCAAGGGAGCCGGGCAAGCCAGGGCAGCCTTGAACCGTCCCCTGGCCTGCCCTCCCC
GGTGGGGGCCAGGATGCTGAAGAAGCAGTCTGCAGGGCTTGTGCTGTGGGGCGCTATCCT
CTTTGTGGCCTGGAATGCCCTGCTGCTCCTCTTCTTCTGGACGCGCCAGCACCTGGCAG
GCCACCCTCAGTCAGCGCTCTCGATGGCGACCCCGCCAGCCTCACCCGGGAAGTGATTCTG
CCTGGCCCAAGACGCGGAGGTGGAGCTGGAGCGGCAGCGTGGGCTGCTGCAGCAGATCGG
GGATGCCCTGTGAGCCAGCGGGGGAGGGTGGCCACCGCGGCCCTCCCGCCAGCCGCG
TGTGCCTGTGACCCCGCGCGCGGGCGGTGATTCCCATCCTGGTCATCGCCTGTGACCGCAG
CACTGTTTCGGCGCTGCCTGGACAAGCTGCTGCATTATCGGCCCTCGGCTGAGCTCTTCCC
CATCATCGTTAGCCAGGACTGCGGGCACGAGGAGACGGCCAGGCCATCGCCTCCTACGG
CAGCGCGGTACGCACATCCGGCAGCCCGACCTGAGCAGCATTGCGGTGCCGCGGACCA
CCGCAAGTTCCAGGGCTACTACAAGATCGCGCGCCACTACCGCTGGGCGCTGGGCCAGGT
CTTCCGGCAGTTTCGCTTCCCCGCGGCCGTGGTGGTGGAGGATGACCTGGAGGTGGCCCC
GGACTTCTTCAGTACTTTTCGGGCCACCTATCCGCTGCTGAAGGCCGACCCCTCCCTGTG
GTGCGTCTCGGCCTGGAATGACAACGGCAAGGAGCAGATGGTGGACGCCAGCAGGCCTGA
GCTGCTCTACCGCACCGACTTTTCCCTGGCCTGGGCTGGCTGCTGTTGGCCGAGCTCTG
GGCTGAGCTGGAGCCCAAGTGGCCAAAGGCCTTCTGGGACGACTGGATGCGGCGGCCGGA
GCAGCGGCAGGGGCGGGCCTGCATACGCCCTGAGATCTCAAGAACGATGACCTTTGGCCG

FIGURE 1 (CONT'D)

CAAGGGTGTGAGCCACGGGCAGTTCTTTGACCAGCACCTCAAGTTTATCAAGCTGAACCA
GCAGTTTGTGCACTTCAACCAGCTGGACCTGTCTTACCTGCAGCGGGAGGCCTATGACCG
AGATTTCTCGCCCGCTCTACGGTGCTCCCCAGCTGCAGGTGGAGAAAGTGAGGACCAA
TGACCGGAAGGAGCTGGGGGAGGTGCGGGTGCTAGTATACGGGCAGGGACAGCTTCAAGGC
TTTCGCCAAGGCTCTGGGTGTCTGGATGACCTTAAGTGGGGGTTCCGAGAGCTGGCTA
CCGGGGTATTGTACCTTCCAGTTCGGGGGCCCGGTGTCCACCTGGCGCCCCCACTGAC
GTGGGAGGGCTATGATCCTAGCTGGAATTAGCACCTGCCTGTCTTCTGGGCCCCCTCCT
TGCCACATCATGAGCTGAGGTGGGACCACAGTCCCCAGGCTGCATCGGCCTGCCTGTGTT
TCCCTCTTAGGTGCATTTATCTTTTGTATTTTCCGAGTGGCATTTAAGTGCACAAATGA
TAACAAGAGGATTATTCTCCCGTTCTCAAGGGAGTCAGATCAGGGGAACTATTCTAGGGT
ATGTTGCGGGGTATTAAGCAGGAAACCACTGTGTGGTGGGGGGCACTGGGCTTGTGGGG
CCAGAAATGTCCACGTCTGAGCTTTCTCCTGGAGCATGTGCAGAGAGTTTGGCAACGTT
CGCTCTCTTGACCAGACCCCTTCTCCCTGACCTGGCTCTTCCAGCCAGGGCAGAGCCCT
CCTTCTATACCTGCTCCCCTTCCCCAGTGGGGACTGAGTTATGGGAGAAGGGGACATAT
TTGTGGCCAAATGATACTAACCAGGGGCTTCTTGTGAGGGCCTGGTGGAGTTGGTG
GGTCATCGGGGCTCACTGCCTCCTGCCCTTCTCTCCTGTCTGACCCCACTTAGCCCTTC
TCTCCTTGAGCCTAGCAGTTTATAGTTCTGAGATGGAAAGTTGAAGGGGGCAAGCAAGA
CCTCTCCTCAGCCCATGCCAGCTGTGAGGAGAGAGGTGCAGGGAGGAAGGCCTTGTGCT
GGGACAACCTCTCTCTTGCCCTTACCTCAGAGAGGGACTATGCCCTGACCCCTCCTTCTG
AAAATCAGTGCCTCCCTGTTGCTCTAGGAGGCTCCTGCTGGCTTGGTAGAAGACAGAAT
TCGATCTGCCTGTCCCTTTTTCCCCTGGGGTTTGACACACAGGCTCCTCTCAGCATGAGG
TGGAGCAGTGACCAGGTGGAGCAGTGACCAGGACGCCTCTGGCCAGTGCTGCCAGCCT
CCCCGCCCCTCCCAGGCGCCCCATGTCTCACAGGCCAGGACGCCATGGCAGGATGGAG
AGGACTTGGTGGATTTTTGTTTTCTGCCTGACCTCAGTTTCATGAAAGAAAGTGGAAGCT
ACAGAATTATTTTCTAAAATAAAGGCTGAATTGTCTG

Gene 246. >ENST00000307826 cDNA sequence

ATGCTGAAGAAGCAGTCTGCAGGGCTTGTGCTGTGGGGCGCTATCCTCTTTGTGGCCTGG
AATGCCCTGTGCTCCTCTTCTTCTGGACGCGCCAGCACCTGGCAGGCCACCCCTCAGTC
AGCGCTCTCGATGGCGACCCCGCCAGCCTCACCCGGGAAGTCTTCCGGCAGTTTCGCTTC
CCCGCGGCCGTGGTGGTGGAGGATGACCTGGAGGTGGCCCCGGACTTCTTCGAGTACTTT
CGGGCCACCTATCCGCTGCTGAAGGCCGACCCCTCCCTGTGGTGCCTCTCGGCCTGGAAT
GACAAACGGCAAGGAGCAGATGGTGGACGCCAGCAGGCCTGAGCTGCTCTACCGCACCGAC
TTTTTCCCTGGCCTGGGCTGGCTGCTGTTGGCCGAGCTCTGGGCTGAGCTGGAGCCCAAG
TGGCCAAAGGCCTTCTGGGACGACTGGATGCGGCGGCCGGAGCAGCGGCAGGGGCGGGCC
TGCATACGCCCTGAGATCTCAAGAACGATGACCTTTGGCCGCAAGGGTGTGAGCCACGGG
CAGTTCTTTGACCAGCACCTCAAGTTTATCAAGCTGAACCAGCAGTTTGTGCACTTCACC
CAGCTGGACCTGTCTTACCTGCAGCGGGAGGCCTATGACCGAGATTTCTTCGCCCCGCTC
TACGGTGCTCCCCAGCTGCAGGTGGAGAAAGTGAGGACCAATGACCGGAAGGAGCTGGGG
GAGGTGCGGGTGCTAGTATACGGGCAGGGACAGCTTCAAGGCTTTTCGCCAAGGCTCTGGGT
GTCATGGATGACCTTAAGTGGGGGTTCCGAGAGCTGGCTACCGGGGTATTGTACCTTC
CAGTTCCGGGGCCGCGGTGTCCACCTGGCGCCCCCACTGACGTGGGAGGGCTATGATCCT
AGCTGGAATTAG

Gene 247. >ENST00000261942 cDNA sequence

GACGGGTGAGGAGCGTAGAGGCGGCGGCAAAATGGCGGCGCTGAGGAGCGGGATCTAAC
CCAGGAGCAGACAGAGAAGCTGCTGCAGTTTCAAGGATCTCACTGGCATCGAATCTATGGA
TCAGTGTGCGCATACCTTGGAAACAGCATAACTGGAACATAGAGGCTGCTGTACAGGACAG
ATTGAATGAGCAAGAGGGCGTACCTAGTGTTTTCAACCCACCTCCATCACGACCCCTGCA
GGTTAATACAGCTGACCACAGGATCTACAGCTATGTTGTCTCAAGACCTCAACCAAGGGC
AAGGCTGCTTGGATGGGGTTATTACTTGATAATGCTTCCATTCCGGTTTACCTATTACAC
GATACTTGATATATTTAGGTTTGCTCTTCGTTTTATACGGCCTGACCCCTGCAGCCGGGT
CACTGACCCCGTTGGGGACATTGTTTCATTTATGCACTCTTTTGAAGAGAAATATGGGAG
GGCACACCCTGTCTTACCAGGGAACGTACAGCCAGGCACCTTAACGATGCCAAAAGGGA
GCTTCGCTTTCTTTTGGTTTATCTTCATGGAGATGATCACCAGGACTCTGATGAGTTTTG
TCGCAACACACTCTGTGCACCTGAAGTTATTTCACTAATAAACACTAGGATGCTCTTCTG

FIGURE 1 (CONT'D)

GGCATGCTCTACAAACAAACCTGAGGGATACAGGGTCTCACAGGCTTTACGAGAGAACAC
CTATCCATTCTGGCCATGATTATGCTGAAGGATCGAAGGATGACTGTGGTGGGACGGCT
AGAAGGCCTCATTCAACCTGATGACCTCATTAAACCAACTGACATTTATCATGGATGCTAA
CCAGACTTACCTGGTGTGAGAACGCCTAGAAAGGGAAGAAAGAAACAGACCCAAGTGCT
GAGACAACAGCAGGATGAGGCCTACCTGGCCTCTCTCAGAGCTGACCAGGAGAAAGAAAG
AAAGAAACGGGAGGAGCGGGAGCGTAAGCGGCGGAAGGAGGAGGAGGTGCAACAGCAAAA
GTTGGCAGAGGAGAGACGGCGGCAGAAATTTACAGGAGGAAAAGGAAAGGAAGTTGGAATG
CCTGCCCCCTGAACCTTCCCCTGATGACCCTGAAAGTGTCAAGATCATCTTCAAATTACC
TAATGATTCTCGAGTAGAGAGACGATTCCACTTTTACAGTCTCTAACAGTAATCCACGA
CTTCTTATTCTCCTTGAAGGAAAGCCAGAAAAGTTTCAGATTGAAGCCAATTTTCCCAG
GCGAGTGCTGCCCTGCATCCCTTCAGAGGAGTGGCCCAATCCCCCTACGCTACAGGAGGC
CGGACTCAGCCACACAGAAGTTCTTTTTGTTCAGGACCTAACTGACGAATGACATTTTTT
TCTTCCTGTCCCCTCCTACCCAGTCCCTAAAAGAAATGGGGAAAAAGAAAAACAACAGC
AAGTCAGAAAAAACAAGAGAGAGAAATTCATATTATTATTATTATTATAATACAAT
ATTTTTTTTTTAAAGACTGCTGCATCCTTAGGAAGGATCAGAAACCATGCTGCCCCTAAGA
GTCACAACCTGTGTGTGCGCGCAAGGTTAGCAACAAACGTACCCGCTTGGCAAGCCCACC
CTTCCTGTGGCCTCTGTGCACGCACCTTCCAGTGAACAGAGACTCTTCACCTTCGACCCA
TCCATTGTCCCAGCTGGGAAGGGGACATTCCCACTAGTTCTCATTATTCTTGCTTTTAT
GAAAAATAAAAGTGAAAAACCTCCATCAACCAGCTACTTGCAGCATCTCCTGAGGACTTG
CTTCTCCTGCCTCTGGGGAAGAGAGGGGAAGAGAAAGCACAGAGCAGAGAAGCAGAGATGT
TCCTTGAAGTGGCCACAAGTTTTCAATAACTTTTATTTCTGTTTTGTAATGACCAAAGGA
ATGAGGCTGACATAGGTATATATATATATATTTTTTCTTTTATTTGATAAAGAGCCAATTC
TTTAAACCCATGAGTTTATGCCCTGGGCTCCTTAGCCACAATAGTGTAATAAAAGTGCC
CCGGGCTGGTTTTGTGCTTATTTCTGCCATTGTCCCTCTCACGTTCCAGAGAGGTATTTC
TTTTTGGTCCAACCTTTGCTGTCTTTCTTACCACCTGTGCACCCCACTTGGAGCAGTGG
GAGGAAATCTGGGTTTTGTGGCCCCACAAAGGCTGTATATGTAAAGATACACCTATGTATG
TGGTGGAACTCACCTTTACACACAACCTGCAGCTTTTCTTGGAGTCTGTACCAGGTGGTG
GTTATGGGGTCTGAACCAAAGGATAGCAGCTCTTCATTCTCTTCTGACATGTGCATGCT
GCTCCCCCAGCCCTGGGCTTTCTGAATTGCCAAGCCTGGTGCCTTTCCAAAGGACTAG
CAGGGCCTGTGGTGGAGCCAGCAGAACCACAGGAGAGTGCCCTGCCTGTCTCAGTGGAAG
TGTATTATTGTTTTAAGGATAGAACCAGAGGCCTTGAAGGGAGCCAAGACAGAACTCCCA
GCCTGTGTAATCTATTGGAAGGCACATTTTCAATTTCTGATGCAGCCACCTTCTGGAGGCA
GCTTTTATCCTTTCTCTCTATTGCTATGTTGAAGTAATAGGGTTTTTTTTTAACCTCTGGA
TGTCTCGTCTGTGGTTGAGTTTATGGTAATGGGTACATGGGTGAGGCCATGTATTAAACAG
ATGCCAGTGCCTCTGACAAGTATTCCAAAGTGTTCTGTAGCTAGACTGGTGCAGGCTCG
TTGTACCACTGCAACCGACTGACGTTACTGTAGTTTCTAGAAATGCTGTGAGGGCGGGGGG
TTCAGATCAACATAAAGCCTAACTTGCTGGAGTTGTAGTCTCAAGGCTTTCTCTCTTGCT
TAACTAAAACCTAAGGACCACTGTTTTTGGTAGCAATTATATGGTTACTATCCACTGCAG
TCCTCAGTTGTTGGGGTAAATCCCACATGGCAGAGTAAGGCACCCACAGAAATTAACCTT
GGAGAGCCTGAGAAATTTCCAGTGGCCTTGGCATAGCTGTCTAGAACACCATCTCTAGGA
AAATTTAATTCTGTCCCTGGCCAGCTATTGTTCTTCCACTTCGTTTTCTGCTGTCCCAAG
GCCAGATGAGTGGAAATCACCATCTGACTGCTGTCAATAAAATGTATCTGGCGTGAACAGC
AGGATAACCCATGTTCTCCACATAAGGATAACCTTACGTGAAACCTTCTGCTGACAACC
ATGCAGAGGAATTTTTCCACTTAAGTCAGAGCCTTCTCCCATCTGGAATTCACAGCTG
TTCCCTGGCAGCACACAGGAGGGTATTAAGGACCTTTGTGAGGCTAGGTACACTGTCCAC
ACCTCTTTGGGGAAGTTACGATTTTTTTTTTCCATCATAATTGAGTCTCTTCTTATTCTA
CAGTGTGCACTTTATGCCTCTCGCCTTTTGATAATAGTTGTTGAGTGAAGGAAGTCAGCT
GCCAGAATATTAAGAAGGGTCTCCCTTTATGTGAGTACAACCTGTTAGGGCGGCCTTCCCA
TTTACTTTAGGTTTCAAGAGGATTCAACCGAAGCACATGCCCCGGTCTAGTCCCATTGTA
AACAGTTCTGCTTTACTGAGACCCTAGGCCGGTCTCCTTGCTGACCCTAGCGCTGCTGCC
TAGGTGCCATTTCTTTCTCCTCAGTCAAATACAGGCTGCACATTTTGTCACTTAATGC
CAGTACAATCTGTGTTACTCCTAAGGACTTTTGGGATTTTGATGAGACCTGCGAGGGAGA
AGACACTGAGAAGCCAGTGATCTGCAAGCATTTGCTCTTGTTTCCACATCACCTCTGGGA
TATTTAGCTGTTGTTTCCAAATGGCAAATCATCAACTAAAAGCACTTGTTTCAAGTTTTT

FIGURE 1 (CONT'D)

GTTCTGCACTCCACGACTGAAGTTGTAGATTGAGCTGAATAACCATGGGAAGTGACCAA
GCAAAGACACTCGATTGGAGTCAGTTGAATATTTGTACCCTCAGTGGAGCCCTTCTGGTC
TTTTCTTCCACTTCTGCAGAATTTCTCTAGCAAATACTTCTTTCTCCTTGCTTGCCTCC
ACCATGATATTTGAATAAGAGATGGCCAGAGGATAACACTTGTCTCTTAAAACTAAGCT
AAAAAGAACCTAGAACCTTCAATTGAGCAGTTGTGAAAATTGCTAATGGTGCCAAGGCCA
AGCAAAGAGTTTTCAGAAAATGACTGAGAAGGAGCGATAACCCCGAGAATGCAAAATCAGG
GGCATCATTATCCGGTGCTTGAACAAGGAGCTCCGCTCTACAACTGGTTTTTTTAGGACT
TGTGAGGAACACAGCAACGGAAATCCATCCACAAAGGATGCAGTGCCCAACTTGTACTG
CGCCTGAATAGTCATGTGATAATTTACTGAAGAAATCTAGTGACTTTAAATTTTTTTCA
TAAAAGTTTACATTGTATTGTAGGTTAACATTAAATGTTTTATAGCAAAAACCTTC

Gene 248. >ENST00000274811 cDNA sequence

ATCAATGTGGGGTTTTGTTACATTCCGCTGCCGCGCGGACAGTTCTTAAAGGGCCAGCC
GCCGGCTGCCGCGCAGACCCAGCTGCGTCCTGCGCCGCTCCCGCTCCCTGAGGGCCTGG
GCCGAGAGAGACTGATCGCGCTGGGCCTCGCGAGGCAGACGCCGTGGGGCGGACAACAA
AGAGAGAGGGCCCCGGAAGGAGCCGGGCTGCCCCCGGACCCGGGGGTGGGGAGGGGAGCAC
ATTGTTCCGCAGGGCGGGAGCTCTTAAAGGATCCAGACAGGCACCCCCCTCCCCCGC
CCCCTGCCAGTTTGGCCGTCTAGATCGGGAACAAAGGAGTCAACGTGTGGCCGGGCGG
CCAAAGGGTTGTGAGTCCCGGCCAGCCCCCTCACCCCCCTGCCCCCGGATGCGACCAT
GGGCTCTGGCAGTGA TAGGTGGCCA CCCTCCGCCCCCGTGGGCCAGCGGCGATTCTCTG
CGGGACCTGGCAGCACCCCGGGCCAGCTCTGGGGAAGCCCTGGCCTCGAGGGCCCCCTGG
CCAGCCCGCTGCCCGGGATGAGCGCTTACCTCCAGCAGCCGCGCTCCCGACCTCCAC
ACCTCCCGTAGAGGAGCGCCGAGCCTCGGCTCCTGCCGGCGGGAGCCCCCGAATGCTGC
ACCCAGCCACCCAGCAGAGCCCGTTTATGTTGATCTCCACGAGCAGGTGCACCAGGGAC
CTGTCCCTCTGTCTACACGGTCACCACAGTGACGCCAAGGCTTCCCCTTGCTACAG
GCCAGCACATCCCTGGCTGCAGTGCCAGCAGCTCCAGCATGCTCCGTGATGTTTCAGTG
GGCAGCATTACCCCCCTCTGTGCTCCCGCCCCCGCTTATCCAGGCGTGACCATGCAGC
AGCTGCCTGTGCCCTATCAGGCCTACCCCCACCTCATCTCCAGTGACCACTACATCCTGC
ACCCCCACCACCGCCCCACCCCCCAGCCACCCACATGGCGCCCTGGGGCAGTTTG
TGTCTCTGCAGACCCAGCACCTCGGATGCCCCCTCCAGCGGCTCGACAACGACGTGGACC
TGCGTGGGGACAGCCCTCCCTGGGCAGCTTACCTACTCCACCTCTGCGCCTGGCCCAG
CCCTTTCCCGCTCGGTGCCCCTGCACTACCTGCCCCACGATCCGCTGCACCAGGAGCTGT
CCTTTGGTGTGCCATATTCTCACATGATGCCACGGAGACTGAGCACCCAGAGATACCGCC
TGACGAGCCACTGCCCCCGCGCCCCCACCCCCACCCCACTACTACCCAGCT
TCCTGCCCTACTTCTCTCGATGCTGCCAATGTACCAACAGCAATGGGGCCACCATCA
GCCTGGACCTGGACGTGGATGATGTGGAGATGGAGAACTATGAGGCCTCCTGAACCTGG
CCGAGCGGCTGGGAGATGCCAAGCCCCGGGGTCTACCAAAGCAGACATAGAGCAGCTCC
CGTCTGACCGCTTTAACCCGGACAGCCATCAGTCGGAGCAGACGCTGTGTGTGGTCTGCT
TCAGTGACTTCGAGGCGCGGCAGCTGCTCCGAGTCTCCCTGCAACCATGAGTTCCACA
CCAAGTGTGTTGACAAGTGGTTGAAGGCCAACCGGACGTGTCCCATCTGC CGGGCCGACG
CCTCCGAGGTGCCAGGGAGGCTGAGTGAGGCCACGCAGCCGCTGCCCGGGAGAACCCT
GCCTGAAGCTCTGGAACTTGTGGGTGGGGCCAGGGAGGATGGGGAGGGAGTGGCCCAG
GCCTGCCCTTTCGCTCCTGCCTGCATTTCCAGAGCTGGTGCCAGGGTCAGCCAGCGAGG
AGTCCCTGCAATAAGCCCCCTGCATTTGCCAAGCTCCAAAGACTCCCTCCCTAGTCTGCCT
GCCTGCCCGCCCGCCACGGAGCTGCCTGAGTGTCCCTGATCGGGTCTCCCTCCTGTGCAC
CCTCAGGTCCCTCCTTTTCTGCTGGCACTGAGTGCCAGGGGTCCGCTCCCTCAGTGGGG
CCGGTGGAGATCCTTGGCCCCAGGATGGGCAGACAGAGCACCATCCTGGGTGAGAAGGTC
TCATGCTCTGAAATGGCGTGCCCTCTGCCAGGTGGCACTGCCAGGTGCGTAGACAGACG
GTGTACGAGCCATTTCTGAGCCCCAGGGCTGAATCCCCCTCCTTGACCCCGAACAGT
GAACTCAGGCAGCTGGCTCTGTGTTGGCTGCTGTGAGGGCTGAGTCTGGTTCCCTAGGGG
ACCCTCATCCAGGAACAACATTCCAGCCCCACCTCAGGCTGGAGGGCGTCCAGCCTA
ATCCCGAGCTGGGGCACA CGTATCCTGAGGGGCTTGGGCCATACGGGGAGAGGGAGCCCT
GTGTTCCCGGTGGTTGTCCCTCCAGGGATGCAGCCAGACCCGTGCCCAATCTCCTCTCC
CTCTGTTGTTTTGCATGAACGTGAGGAGCAGCAGTTTTTTGTTTCATTTCATTTGGCCAAAA
TCACGTGTAGGATTTGGGGATGTGGATATTTAAGACAATTTCTTTTTTCTTTTGGTTTAA

FIGURE 1 (CONT'D)

TAGGGGCGGGTATAGGGACCAACTGGGACCGAGTGCCAGGGGGCCGAGCACGGTCATGC
TGGCCGGCCTGCATGCATGCGTGTGCCGGGCTGGGCTGGGCGGCCGGCGGTCTGTTGGGCA
GGGTTGGGGGTCTGTGCTCAGCTGATAACTGCCATGCACTGTACTGCACACGTCCCTAGA
GCCTACCGGGACCCGACGCTTTTCAGGGCATTTCTCCCTCCAGCCAGGGCCCAACTCCCA
CCTGCCTGGGCGAATCTCCTCCAAGGAAGTCCCAGGAGGATGGGGACCAGGAAGGCTGTG
GACCCCCATCTCCAGGGGGCCTTCCCAGCCTGATCCCTGTCCTCCAAGTTCTGGAGGAGG
CCGCTGTAGGGTCTGGCTGAGCTTCCCACCCACTTTCCCTGGTCCCAATCCTTTCTTGTC
CTATACCCAGCTGGGGTTGCTGCCCTGAACGAACTGCGTGTGGGGCCGGCACATCCTAGC
AGGCAGCCCCCTGGCGCCTGCTGCCCTCAGGGATGCTCCAACCACCCTCGTTCTCCTCGCAG
TGGCCCTGGCTCCCACCTCCCGCCCCAGCCTGCCGTGGGGCCCGTCAGCCTGGTCCACC
CCCATGGAGAACCCAAAGTCTTACTGTATATAACTCCAGGTGACGTTTCTATATTTATAG
CAGTGTGAAACCCACGTGTTTTACACAGAACCACCCTCTCCAACCCCTCCCTTCCCGA
CCCCAACAAAACGTTTTCAAACCCCTTACAGTTCTTGGGGCAGGCGGAAAACAGGCTCACA
GATTGTGTGTGCGCTGCAGCAGTGATTCCAACAAGCAGCTATTGGGGGGGAAAACACAGCA
TTTTAAAAGATCATCATTAAAAACAAGATTTATACAACAATTACTTAGGATGTTTGTGA
TCTGCCGACCTTGCTATAGATGCCATGTTACCAATGATTTCTGTGGTGGGGCTTGCCA
TTGTTTACTCTCTTATTTACCAACTTCTGGCCTAGGCATGACAGTGGGCACCTTCCCCCA
GCCCTGGCTGGGCCCAGCGCCTGTGTTCTGTGTTAGAAAGGTTTTATATATATATAAAAT
TACATATATATGTAGAAATATATGTAATTTGGGGGCCCTGTTCTTGCACATTTTACAG
TTACCTCATTTTTCCCATGTATGTATTTGAGAAAATGCTAATATATAGAGAAAAAATGG
TTCTTAAAGCTTAAATGTGTGGTTTTTCCATTCCATGGGATTACATTGGTTTGTAGCA
TTTAACATAACTAGTATGTTGTATTATATATATGTGTATACTGATTGAAATTTTTAACAG
ATTTGTACTTTTTTTTAAATGAAAGTTGCTAGTTCTGCTTGACCAAGTAGTGAATCATT
ATTTTTTTTTAATATTGTTGCTGATTTCAGAGGGATATTTCACTAATAAATGTATGATGTAT
ACC

Gene 249. >ENST00000057533 cDNA sequence

ATGAGCGACAGTAAATGTGACAGTCAGTTTTATAGTGTGCAAGTGGCAGACTCAACCTTC
ACTGTCCTAAACGTTACCAGCAGCTGAAACCAATTGGCTCTGGGGCCCAAGGGATTGTT
TGTGCTGCATTTGATACAGTTCTTGGGATAAATGTTGCAGTCAAGAACTAAGCCGTCTT
TTTCAGAACCAAACCTCATGCAAAGAGAGCTTATCGTGAACCTTGTCTCTTAAATGTGTC
AATCATAAAAATATAATTAGTTTGTAAATGTGTTTACACCACAAAAAATCTAGAAGAA
TTTCAAGATGTGTATTTGGTTATGGAATTAATGGATGCTAACTTATGTGAGGTTATTAC
ATGGAGCTGGATCATGAAAGAATGTCTACCTTCTTTACCAGATGCTTTGTGGTATTAAA
CATCTGCATTGAGCTGGTATAATTATAGAGATTTGAAGCCTAGCAACATTGTTGTGAAA
TCAGACTGCACCCTGAAGATCCTTGACTTTGGCCTGGCCCGGACAGCGTGCCTAACTTC
ATGATGACCCCTTACGTGGTGACACGGTACTACCGGGCGCCCGAAGTCATCCTGGGTATG
GGCTACAAAGAGAACGTGGACATCTGGTCTGTGCGGTGCATCATGGCAGAAATGGTCCTC
CATAAAGTCCTGTTCCCGGGAAGAGACTATATTGATCAGTGGAATAAAGTTATTGAGCAG
CTGGGAACACCATCAGCAGAGTTTATGAAGAACTTCAGCCAACTGTGAGGAATTATGTC
GAAAACAGACCAAAGTATCCTGGAATCAAATTTGAAGAACTCTTTCAGATTGGATATTC
CCATCAGAATCTGAGCGAGACAAAATAAAAAACAAGTCAAGCCAGAGATCTGTTATCAAAA
ATGTTAGTGATTGATCCTGACAAGCGGATCTCTGTAGAAGAAGCTCTGCGTCACCCATAC
ATCACTGTTTTGGTATGACCCCGCCGAAGCAGAAGCCCCACCACCTCAAATTTATGATGCC
CAGTTGGAAGAAAGAGAACATGCAATTGAAGAATGGAAAGAGCTAATTTACAAAGAAGTC
ATGGATTGGGAAGAAAGAAGCAAGAATGGTGTGTTGTTAAAGATCAGCCTTCAGATGCAGCA
GTAAGTAGCAACGCCACTCTTCTCAGTCTTCATCGATCAATGACATTTATCATCATGTCC
ACTGAGCAGACGCTGGCCTCAGACACAGACAGCAGTCTTGATGCCTCGACGGGACCCCTT
GAAGGCTGTCGATGA

Gene 250. >ENST00000316123 cDNA sequence

ATGAGCGACAGTAAATGTGACAGTCAGTTTTATAGTGTGCAAGTGGCAGACTCAACCTTC
ACTGTCCTAAACGTTACCAGCAGCTGAAACCAATTGGCTCTGGGGCCCAAGGGATTGTT
TGTGCTGCATTTGATACAGTTCTTGGGATAAATGTTGCAGTCAAGAACTAAGCCGTCTT
TTTCAGAACCAAACCTCATGCAAAGAGAGCTTATCGTGAACCTTGTCTCTTAAATGTGTC
AATCATAAAAATATAATTAGTTTGTAAATGTGTTTACACCACAAAAAATCTAGAAGAA

FIGURE 1 (CONT'D)

TTTCAAGATGTGTATTTGGTTATGGAATTAATGGATGCTAACTTATGT CAGGTTATT CAC
 ATGGAGCTGGATCATGAAAGAATGTCTACCTTCTTTACCAGATGCTTTGTGGTATTAAA
 CATCTGCATT CAGCTGGTATAATT CATAGAGATTTGAAGCCTAGCAACATTGTTGTGAAA
 TCAGACTGCACCCTGAAGATCCTTGACTTTGGCCTGGCCCGGACAGCGTGCACTAACTTC
 ATGATGACCCCTTACGTGGTGACACGGTACTACCGGGCGCCGAAGTCATCCTGGGTATG
 GGCTACAAAGAGAACGTTGATATCTGGTCAGTGGGTTGCATCATGGGAGAGCTGGTGAAA
 GGTTGTGTGATATTCCAAGGCACTGACCATATTGATCAGTGGAATAAAGTTATTGAGCAG
 CTGGGAACACCATCAGCAGAGTT CATGAAGAACTTCAGCCAACCTGTGAGGAATTATGTC
 GAAAA CAGACCAAAGTATCCTGGAATCAAATTTGAAGAACTCTTTCAGATTGGATATT C
 CCATCAGAATCTGAGCGAGACAAAATAAAAA CAAGTCAAGCCAGAGATCTGTTATCAAAA
 ATGTTAGTGATTGATCCTGACAAGCGGATCTCTGTAGACGAAGCTCTGCGTCACCCATAC
 ATCACTGTTTTGGTATGACCCCGCCGAAGCAGAAGCCCCACACCTCAAATTTATGATGCC
 CAGTTGGAAGAAAGAGAACATGCAATTGAAGAATGGAAAGAGCTAATTTACAAAGAAGTC
 ATGGATTGGGAAGAAAGAAGCAAGAATGGTGTGTGAAAAGATCAGCCTTCAGATGCAGCA
 GTAAGTAGCAACGCCACTCCTTCTCAGTCTTCATCGATCAATGACATTTTCATCCATGTCC
 ACTGAGCAGACGCTGGCCTCAGACACAGACAGCAGTCTTGATGCCTCGACGGGACCCCTT
 GAAGGCTGTCGATGA

Gene 251. >ENST00000253778 cDNA sequence

GGAATCTTTGCCTACATGAACTACAGAGTCCCCCGGACGAGGAAGGAGATCTTCGAAACC
 CTCATCAAGGGCCTGCAGCGGCTGGAGTACAGAGGCTACGACTCGGCAGGTGTGGCGATC
 GATGGGAATAATCACGAAGTCAAAGAAAGACACATT CAGCTGGTCAAGAAAAGGGGGAAA
 GTCAAGGCTCTCGATGAAGAACTTTACAAACAAGACAGCATGGACTTAAAAGTGGAGTTT
 GAGACACACTTCGGCATTGCCACACGCGCTGGGCCACCCACGGGGTCCCCAGTGCTGTC
 AACAGCCACCCTCAGCGCTCAGACAAAGGCAACGAATTTGTTGT CATCCACAATGGGATC
 ATCACAAATTACAAAGATCTGAGGAAATTTCTGGAAAGCAAAGGCTACGAGTTTGAGTCA
 GAAA CAGATACAGAGACCATCGCCAAGCTGATTAAATATGTGTT CGACAA CAGAGAACT
 GAGGACATTACGTTTTTCAACGTTGGT CGAGAGAGTCATT CAGCAGTTGGAAGGTGCATT C
 GCGCTGGTTTTTCAAGAGTGTCCACTACCCAGGAGAAGCCGTTGCCACACGGAGAGGCAGC
 CCCCTGCTCATCGGAGTCCGGAGCAAATACAAGCTCTCCACAGAACAGATCCCTATCTTA
 TACAGGACGTGCACTCTGGAGAATGTGAAGAATATCTGTAAGACACGGATGAAGAGGCTG
 GACAGCTCCGCTGCCTGCATGCTGTGGGCGACAAGGCCGTGGAATTTCTTCTTTGCTTCT
 GATGCAAGCGCTATCATAGAGCACACCAACCGGGTCATCTTCTGGAGGACGATGACATC
 GCCGCAGTGGCTGATGGGAACTCTCCATT CACCGGGTCAAGCGCTCGGCCAGTGATGAC
 CCATCTCGAGCCATCCAGACCTTG CAGATGGAAGTGCAGCAAATCATGAAAGGCAGGTGT
 AACTTCAGTGCGTTTTATGCAGAAGGAGATCTTCGAACAGCCAGAATCAGTTTTCAATACT
 ATGAGAGGTGGGGTGAATTTTGAAACCAACACAGTGCTCCTGGGTGGCTTGAAGGACCAC
 TTGAAGGAGATTTCGACGATGCCGACGGCTCATCGTGATTGGCTGTGGAACCAGCTACCAC
 GCTGCCGTGGCTACGCGGCAAGTTTTTGAGGAACTGACTGAGCTTCTGTGATGGTTGAA
 CTTGCTAGTGATTTTTCTGGACAGGAACACACCTGTGTT CAGGGATGACGTTTGCTTTTTTC
 ATCAGCCAGTCAGGCGAGACCGCGACACCCCTCTGGCGCTGCGCTACTGTAAGGACCGC
 GGCGCTCTCACCGTGGGCGTCACCAACACCGTGGGCAGCTCCATCTCTCGCGAGACCGAC
 TGCGGCGTCCACATCAACGCAGGGCCGGAGATCGGCGTGGCCAGCACCAAGGCTTATACC
 AGTCAGTT CATCTCTCTGGTGATGTTTGGTTTGATGATGTCTGAAGACCGAATTTCACTA
 CAAAACAGGAGGCAAGAGATCATCCGTGGCTTGAGATCTTTACCTGAGCTGATCAAGGAA
 GTGCTGTCTCTGGAGGAGAAGATCCACGACTTGGCCCTGGAGCTCTACACGCAGAGATCG
 CTGCTGGTGATGGGGCGGGGCTACAACTATGCCACCTGCCTGGAAGGAGCCCTGAAAATT
 AAAGAGATAACCTACATGCACTCAGAAGGCATCCTGGCTGGGGAGCTGAAGCACGGGCCC
 CTGGCACTGATTGACAAGCAGATGCCCGTCATCATGGTCATTATGAAGGATCCTTGCTTC
 GCCAAATGCCAGAACGCCCTGCAGCAAGTCAAGGCCCGCCAGGGTCGCCCCATTATACTG
 TGCTCCAAGGACGATACTGAAAGTTCCAAGTTTGCATATAAGACAATTGAGCTGCCCCAC
 ACTGTGGAATGCCTCCAGGGCATCCTGAGCGTGATTCCGCTGCAGCTGCTGTCTTCCAC
 CTGGCTGTTCTCCGAGGATATGACGTTGACTTCCCCAGAAATCTGGCCAAGTCTGTAACCT
 GTGGAATGAGGCTGAGACCGTGACAAGACCATCACCACCTTTCATCTGATTCCAGACCTG
 TCCCAACAGCAGGGATGCTACATGGGAAGAGAAGTGGACATCCCAATGTTCTGCGTGCT

FIGURE 1 (CONT'D)

CCTGTAGAGCTTGACAGCTTCCACGTGCCTTCTACCCAAGTGCTTTTGCTTACAGCAGAT
 ACTGTTTCTCTGTGTCCTGAAGTCGCCAGAGGAGAAGGGAATCATTGTTTACACATGGGG
 ATCAGAGCAGACTTCTCCACTACTGTGCAATAGAGATACAGCTCTCTTCAGAGTAACTGT
 GAACCTTTTATAACCAACACTAGAGTTAGTTTTAAAAGACAAGATATTTATAATGACGAC
 TGTATAGCTTTTAAAGTTATTTTTCTAGTATGTGGCTTTCTGTAGCCGTGGTAACGGCCAA
 ACTGTTTCATCCTAGCTACCATGCTCTGTGTCCAGGCTTGCTCCTGGCAGGTGGCATTCA
 TCTCAGATGTGAGCACAAGGCATTGGCCCTCTGGACTCCTTTCTCCTTTTCTTTCTCTC
 TAGGCTGCTCCTGAATCCTGTTCTCTGACATCCGTGGAGCCCCCTCCTGCATCCACCTATG
 CCTCCTATAAGTCCAGTTGAAATCTCAGCCTCCTTCAACATTTTCTTCTCGTGTGTGGCC
 CACATCCCTCCACTTCTCCAACCTTCTGTTTAAATCTGATCACGGCTCTTTTAAAGCCCTGG
 CAGCATTTTGGTCCCTGCTCCTTGCCCATAGTAAACAGCTTGAAATATCCCATGCAAGA
 GAGTAGTTTCAAGTGGGCAACTCTGCTCTCTATTTAAAAGCGTGCACAATCAAAAGTACT
 ATGCAATTTTAGGACAATAAAGAACATACAGTTTTTTTTGTGTG

Gene 252. >ENST0000298507 cDNA sequence

GCTGGCCCCGGGAGGGGGCGCGGGGCACGGTTGATGCCGGCCAGGATGGATCAGACCTGT
 GAACTACCCAGAAGAAATTGTCTGCTGCCCTTTTCCAATCCAGTGAATTTAGATGCCCCCT
 GAAGACAAGGACAGCCCTTT CGGTAATGGTCAATCCAATTTTCTGAGCCACTTAATGGG
 TGTACTATGCAGTTATCGACTGTGAGTGAACATCCAAAATGCTTATGGACAAGATTCT
 CCATCTTGTTACATTCCACTGCGGAGACTACAGGATTTGGCCTCATGATCAATGTAGAG
 TATTTAAATGGGTCTGCTGATGGATCAGAATCCTTTCAAGACCCTGAAAAAGTGATTCA
 AGAGCTCAGACGCCAATTGTTTGCACCTTCTTGAGTCTGGTGGTCTACAGCACTTGCT
 ATGAAACAGGAACCCCTCTGTAATAACTCCCCGTAACCTCAGGTAAAAGTAACAAAGACT
 ATCAAGAATGGCTTTCTGCACCTTTGAGAATTTTACTTGTGTGGACGATGCAGATGTAGAT
 TCTGAAATGGACCAGAACAGCCAGTCAAGAGGATGAGAGTATAGAGGAGATCTTTGAG
 GAAACTCAGACCAATGCCACCTGCAATTATGAGACTAAATCAGAGAATGGTGTAAGTG
 GCCATGGGAAGTGAACAAGA CAGCACACCAGAGAGTAGACACGGTGCAATCGCCA
 TTCTTGCCATTAGCTCCTCAGACTGAAACACAGAAAAATAAGCAAAGAAATGAAGTGGAC
 GGCAGCAATGAAAAAGCAGCCCTTCTCCAGCCCCCTTTTCACTAGGAGACACAAACATT
 ACAATAGAAGAGCAATTAAACTCAATAAATTTATCTTTTCAGGATGATCCAGATTCCAGT
 ACCAGTACATTAGGAAACATGCTAGAATTACCTGGAACCTCATCATCTACTTCACAG
 GAATTGCCATTTTGTCAACCTAAGAAAAAGTCTACGCCACTGAAGTATGAAGTTGGAGAT
 CTCATCTGGGCAAAATTCAAGAGACGCCCATGGTGGCCCTGCAGGATTTGTTCTGATCCG
 TTGATTAACACACATTCAAAAATGAAAGTTTCCAACCGGAGGCCCTATCGGCAGTACTAC
 GTGGAGGCTTTTGGAGATCCTTCTGAGAGAGCCTGGGTGGCTGGAAAAGCAATCGTCATG
 TTTGAAGGCAGACATCAATTGGAAGAGCTACCTGTCTTAGGAGAAGAGGGAAACAGAAA
 GAAAAAGGATATAGGCATAAGGTTCTCAGAAAATTTTGAAGTAAATGGGAAGCCAGTGTT
 GGACTTGCAGAACAGTATGATGTTCCCAAGGGGTCAAAGAACCAGAAATGTATTCTGGT
 TCAATCAAGTTGGACAGTGAAGAAGATATGCCATTTGAAGACTGCACAAATGATCCTGAG
 TCAGAACATGACCTGTTGCTTAATGGCTGTTTGAATCACTGGCTTTTGATTCTGAACAT
 TCTGCAGATGAGAAGGAAAAGCCTTGCGCTAAATCTCGAGCCAGAAAGAGCTCTGATAAT
 CCAAAAAGGACTAGTGTGAAAAAGGGCCACATCAATTTGAAGCACATAAAGATGAACGG
 AGGGGAAAGATTCCAGAGAACCTTGGCCTAAACTTTATCTCTGGGGATATATCTGATACG
 CAGGCCTCTAATGAACCTTCCAGGATAGCAAATAGCCTCACAGGGTCCAACACTGCCCA
 GGAAGTTTTCTGTTTTCTTCTGTGGAAAAACA CTGCAAAGAAAGAAATTTGAGACTTCA
 AATGGTGACTCTTTATTGGGCTTGCCCTGAGGGTGCTTTGATCTCAAAGTGTTCTCGAGAG
 AAGAATAAACCCCAACGAAGCCTGGTGTGTGGTTCAAAGTGAAGCTCTGCTATATTGGA
 GCAGGTGATGAGGAAAAGCGAAGTGATTCCATTAGTATCTGTACCCTTCTGATGATGGA
 AGCAGTGACCTGGATCCCATAGAACACAGCTCAGAGTCTGATAACAGTGTCCTTGAAATT
 CCAGATGCTTTTCGATAGAACAGAGAACATGTTATCTATGCAGAAAAATGAAAAGATAAAG
 TATTCTAGGTTTGTCTGCCACAAACACTAGGGTAAAAGCAAAACAGAAAGCCTCTCATTAGT
 AACTCACATACAGACCACTTAATGGGTGTACTAAGAGTGAGAGCCTGGAACCGAGACG
 TCTCAGGTTAATCTCTCTGATCTGAAGGCATCTACTCTTGTTACAAACCCAGTCAGAT
 TTTACAAATGATGCTCTCTCTCCAAAATTCAACCTGTCAAGCATATCCAGTGAGAAC
 TCGTTAATAAAGGTGGGGCAGCAAATCAAGCTCTATTACATTGAAAAGCAAACAGCCC

FIGURE 1 (CONT'D)

AAGTTCCGAAGTATAAAGTGCAAACACAAAGAAAATCCAGTTATGGCAGAACCCCCAGTT
 ATAAATGAGGAGTGCAGTTTGAAATGCTGCTCTTCTGATACCAAAGGCTCTCCTTTGGCC
 AGCATTCTCTAAAAGTGGGAAAGTGGATGGTCTAAACTACTGAACAATATGCATGAGAAA
 ACCAGGGATTCAAGTGACATAGAAACAGCAGTGGTGAAACATGTTTTATCCGAGTTGAAG
 GAACTCTCTTACAGATCCTTAGGTGAGGATGT CAGTGA CTCTGGAACATCAAAGCCATCA
 AAACCATTACTTTTTCTCTTCTGCTTCTAGT CAGAATCACATACCTATTGAACCAGACTAC
 AAATT CAGTACATTGCTAATGATGTTGAAAGATATGCATGATAGTAAGACGAAGGAGCAG
 CGGTTGATGACTGCTCAAAACCTGGTCTCTTACCGGAGTCTGGTCTGGGGGACTGTTCT
 ACTAATAGTCTGTAGGAGTCTCTAAGGTTTTGGTTTCAGGAGGCTCCACACA CAATTCA
 GAGAAAAAGGGAGATGGCACTCAGAACTCCGCCAATCCTAGCCCTAGTGGGGGTGACTCT
 GCATTATCTGGCGAGTTGTCTGCTTCCCTACCTGGCTTACTGTCCGACAAGAGAGACCTC
 CCTGCTTCTGGTAAAAGTCGTT CAGACTGTGTTACTAGGCGCAACTGTGGACGATCAAAG
 CCTTCATCCAAATTGCGAGATGCTTTTTTCAGCCCAAATGGTAAAGAACACAGTGAACCGT
 AAAGCCTTAAAGACCGAGCGCAAAAGAAAACCTGAATCAGCTTCCAAGTGTGACTCTTGAT
 GCTGTACTGCAGGGAGACCGAGAACGTGGAGGTT CATTGAGAGGTGGGGCAGAAGATCCT
 AGTAAAGAGGATCCCCCTTCAGATAATGGGCCACTTAACAAGTGAAGATGGTGACCATTTT
 TCTGATGTGCATTTTCGATAGCAAGGTTAAGCAATCTGATCCTGGTAAAATTTCTGAAAAA
 GGACTCTCTTTTGAAAACGGAAAAGGCCAGAGCTGGACTCTGTAATGAACAGTGAGAAT
 GATGAACTCAATGGTGTAATCAAGTGGTGCCATAAAAGCGGTGGCAGCGTTTAAACCAA
 AGGCGCACTAAACCTCGTAAGCGCATGAACAGATTTAAAGAGAAAGAAAACCTCTGAGTGT
 GCCTTTAGGGTCTTACTTCTAGTGACCTGTGCAGGAGGGGCGGGATGAGTTTCCAGAG
 CATAGAACTCCTTCAGCAAGCATACTTGAGGAACCACTGACAGAGCAAAATCATGCTGAC
 TGCTTAGATT CAGCTGGGCCACGGTTAAATGTTTGTGATAAATCCAGTGCCAGCATTGGT
 GACATGGAAAAGGAGCCAGGAATCCCAGTTTGACACCAAGGCTGAGCTCCCTGAACCA
 GCTGTGCGGT CAGAGAAGAAACGCCTTAGGAAGCCAAGCAAGTGGCTTTTGGAATATACA
 GAAGAATATGATCAGATATTTGCTCCTAAGAAAAAACAAAAGAAGGTACAGGAGCAGGTG
 CACAAGGTAAGTTCCCCTGTGAAGAGGAAAGCCTTCTAGCCGAGGTGATCTAGTGCT
 CAGAACAAGCAGGTGGACGAGAATTCTTTGATTTCAACCAAAGAAGAGCCTCCAGTTCTT
 GAAAGGGAGGCTCCGTTTTTGGAGGGCCCCCTTGGCTCAGTCAGAACTTGGAGGTGGACAT
 GCTGAGTTGCCCGAGCTGACCTTGTCTGTGCTGTGGCTCCGGAAGTCTCTCCACGGCCT
 GCCCTTGAGTCTGAGGAATTGCTAGTTAAAAACGCCAGGAAATTATGAAAGTAAACGTCAA
 AGAAAACCAACCTAAGAACTTCTTGAATCCAATGATTTAGACCCTGGATTTATGCCCAAG
 AAGGGGGACCTTGGCCTTTCTAAAAAGTGCTATGAAGCTGGTCACCTGGAGAATGGCATA
 ACTGAATCTTGTGCCACATCTTATTCAAAAGATTTTGGTGGAGGCACTACCAAGATATTT
 GACAAGCCAAGGAAGCGAAAACGACAGAGGCATGCTGCAGCCAAGATGCAGTGTAAAAAA
 GTGAAAAATGATGACTCGTCAAAAGAGATTTCCAGGCTCAGAGGGAGAACTAATGCCTCAC
 AGGACGGCCACAAGCCCCAAGGAGACTGTTGAGGAAGGTGTAGAACACGATCCCGGGATG
 CCTGCCTCTAAAAAATGCAGGGTGAACCGGTTGGAGGAGCTGCACTCAAGGAGAATGTC
 TGT CAGAATTGTGAAAAATTGGGTGAGCTGCTGTTATGTGAGGCTCAGTGCTGTGGGGCT
 TTCCACCTGGAGTGCCTTGGATTGACTGAGATGCCAAGAGGAAAATTTATCTGCAATGAA
 TGTGCGACAGGAATCCATACCTGTTTTGTATGTAAGCAGAGTGGGGAAGATGTTAAAAGG
 TGCCTTCTACCCTTGTGTGGAAAGTTTACCATGAAGAGTGTGTCCAGAAGTACCCACCC
 ACTGTTATGCAGAACAAAGGGCTTCCGGTGCTCCCTCCACATCTGTATAACCTGTCATGCT
 GCTAATCCAGCCAATGTTTCTGCATCTAAAGGTGGTTGATGCGCTGTGTCCGCTGTCTCT
 GTGGCATACCACGCCAATGACTTTTGCTGGCTGCTGGGTCAAAGATCCTTGCACTAAT
 AGTATCATCTGCCCTAATCACTTTACCCCTAGGCGGGGCTGCCGAAATCATGAGCATGTT
 AATGTTAGCTGGTGCTTTGTGTGCTCAGAAGGAGGCAGCCTTCTGTGCTGTGATTCTTGC
 CCTGCTGCTTTTTCATCGTGAATGCCTGAACATTGATATCCCTGAAGGAACTGGTATTGC
 AATGACTGTAAAGCAGGCAAAAAGCCACACTACAGGGAGATTGTCTGGGTAAAAGTTGGA
 CGATACAGGTGGTGGCCAGCTGAGATCTGCCATCCTCGAGCTGTTCTTCCAACATTGAT
 AAGATGAGACATGATGTGGGAGAGTTCCAGTCCTCTTTTTTGGATCTAATGACTATTTG
 TGGACTCACCAGGCCCGAGTCTTCCCTTACATGGAGGGTGACGTGAGCAGCAAGGATAAG
 ATGGGCAAAGGAGTGGATGGGACATATAAAAAAGCTCTTCAGGAAGCTGCAGCAAGGTTT
 GAGGAATTAAAGGCCAAAAGAGCTAAGACAGCTGCAGGAAGACCGAAAGAATGACAAG

FIGURE 1 (CONT'D)

AAGCCACCACCTTATAAACATATAAAGGTAAACCGTCCTATTGGCAGGGTACAGATCTTC
 ACTGCAGACTTATCTGAAATACCCGTTGCAACTGTAAAGCTACTGATGAGAACCCCTGT
 GGGATAGACTCTGAATGCATCAACCGCATGCTGCTCTATGAGTGCCACCCACAGTGTGT
 CCTGCCGGAGGGCGCTGTCAAAACAGTGCTTTTTCCAAGCGCAATATCCAGAGGTTGAA
 ATTTTCCGCACATTACAGCGGGTTGGGGTCTACGGACAAAAACAGATATTAAAAAGGGT
 GAATTTGTGAATGAGTATGTGGGTGAGCTTATAGATGAAGAAGAATGCAGAGCTCGAATT
 CGCTATGCTCAAGAACATGATATCACTAATTTCTATATGCTCACCTAGACAAAGACCGA
 ATCATTGATGCTGGTCCCAAAGGAACTATGCTCGGTTTATGAATCATTGCTGCCAGCCC
 AACTGTGAAACACAGAAGTGGTCTGTGAATGGAGATACCCGTGTAGGCCTTTTTGCACTA
 AGTGACATTAAAGCAGGCACTGAACTTACCTTCAACTACAACCTAGAATGTCTTGGGAAT
 GGAAAGACTGTTTGCAATGTGGAGCCCCGAACTGCAGTGGCTTCTTGGGTGTAAGGCCA
 AAGAATCAACCCATTGCCACGGAAGAAAAGTCAAAGAAATTCAAGAAGAAGCAACAGGGA
 AAGCGCAGGACCCAGGGTGAAATCACAAAGGAGCGAGAAGATGAGTGTTTTAGTTGTGGG
 GATGCTGGCCAGCTCGTCTCCTGCAAGAAACCAGGCTGCCAAAAGTTTACCACGCAGAC
 TGTCTCAATCTGACCAAGCGACCAGCAGGGAAATGGGAATGTCCGTGGCATCAGTGTGAC
 ATCTGCGGGAAGGAAGCAGCCTCCTTCTGTGAGATGTGCCCCAGCTCCTTTTGTAAAGCAG
 CATCGAGAAGGGATGCTTTTTCATTTCAAACCTGGATGGGCGTCTGTCTTGTACTGAGCAT
 GACCCCTGTGGGCCCAATCCTCTGGAACCTGGGGAGATCCGTGAGTATGTGCCTCCCCCA
 GTACCGCTGCCTCCAGGGCCAAGCACTCACCTGGCAGAGCAATCAACAGGAATGGCTGCT
 CAGGCACCCAAAATGTGAGATAAACCTCCTGCTGACACCAACCAGATGCTGTGCTCTCC
 AAAAAAGCTCTGGCAGGGACTTGTGAGAGGCCACTGCTACCTGAAAGACCTCTTGAGAGA
 ACTGACTCCAGGCCCCAGCCTTTAGATAAGGTGAGAGACCTCGCTGGGTGAGGGACCAA
 TCCCAATCCTTGGTTTTCCAGCCAGAGGCCACTGGACAGGCCACCAGCAGTGGCAGGACCA
 AGACCCAGCTAAGCGACAAACCTCTCCAGTGACCAGCCCAAGCTCCTCACCTCAGTC
 AGGTCCCAACCACTGGAAGACCTCTGGGGACGGCTGACCCAAGGCTGGATAAATCCATA
 GGTGCTGCCAGCCCAAGGCCCCAGTCACTGGAGAAAACCTCAGTTCCCACTGGCCTGAGA
 CTTCCGCCGCCAGACAGACTGCTCATTACTAGCAGTCCCAAAACCCAGACTTCAGACAGG
 CCTACTGACAAAACCCATGCCTCTTTGTCCAGAGACTCCCACTCCTGAGAAAGTACTA
 TCAGCTGTGGTCCAGACCTTGTAGCTAAAGAAAAAGCACTGAGGCCTGTGGACCAGAAT
 ACTCAGTCAAAAAATAGAGCTGCTTTGGTGATGGATCTCATAGACCTAACTCCTCGCCAG
 AAGGAGCGGGCAGCTTCACTCATCAGGTACACCCACAGGCTGATGAGAAGATGCCAGTG
 TTGGAGTCAAGTTTATGGCCTGCCAGCAAAGGTCTGGGGCATATGCCGAGAGCTGTTGAG
 AAAGGCTGTGTGTGAGATCCTCTTCAGACATCTGGGAAAGCAGCAGCCCCCTTCAGAGGAC
 CCTGGCAAGCTGTTAAATCACTCACCCAGGCCAGACTTCTTTCTCAGCCTCCTGCCAAG
 GCCTTTTTTATATGAGCCAACAACCTCAGGCCTCAGGAAGAGCTTCTGCAGGGGGCTGAGCAG
 ACCCCAGGGCCTCTTAGCCAATCCCCGGGCCTGGTGAAGCAGGCGAAGCAGATGGTCGGA
 GGCCAGCAACTACCTGCACTTGCCGCCAAGAGTGGGCAATCTTTTAGGTCTCTCGGGAAG
 GCCCCAGCCTCCCTCCCCACTGAAGAAAAGAAGTTGGTAACACAGAGCAAAGTCCCTGG
 GCCCTGGGAAAAGCCTCATCACGGGCAGGGCTCTGGCCCATAGTGGCTGGACAGACACTG
 GCACAGTCTTGCTGGTCTGCTGGGAGCACACAGACATTGGCACAGACTTGCTGGTCTCTT
 GGAAGAGGGCAAGACCCCAAAACAGAGCAAAATACACTTCCAGCTCTTAACAGGCTCCT
 TCCAGTCACAAGTGTGAGAATCAGAACAGAAGTAGTACCAATCAATGTACATGAACAA
 ACAAGCTGCCCCCAGGGTACCATTTGGGGAGGGGAAATCTTTTCTTTCTTTCCCCCTTAA
 AAAAAACACATCTGCCCCGAACACTTTCCCACTGTTATTCTTTCTCATATCCCAACAC
 TCAGAACTCTTGTGACATTAGCCAGTGGGGCTTATGGTTGTGTGAACCATGTATGAAAA
 TCCAGTGGGCCCCAACCAAGGAGACAGACAGACTTGGGTCTCTTTCCCCCAACTTTTCCA
 CATGGTCATCGTGAAATAAAAGTCCACTCTGGAGTC

Gene 253. >ENST00000292408 cDNA sequence

GGGCCGCTCGCGGCCACGCCCGCTCGCGGGTACATTCTCGCTCCCGGCCGAGGAGCGC
 TCGGGCTGTCTGCGGACCCTGCCGCGTGCAGGGGTGCGGCCGGCTGGAGCTGGGAGTGA
 GGCGGCGGAGGAGCCAGGTGAGGAGGAGCCAGGTGAGCAGGACCTGTGCTGGGCGCGGA
 GTCACGCAGGCTCGAGGAAGGCAGTTGGTGGGAAGTCCAGCTTGGGTCCCTGAGAGCTGT
 GAGAAGGAGATGCGGCTGCTGCTGGCCCTGTTGGGGGTCTGCTGAGTGTGCCTGGGCCT
 CCAGTCTTGTCCCTGGAGGCCTCTGAGGAAGTGGAGCTTGAGCCCTGCCTGGCTCCAGC

FIGURE 1 (CONT'D)

CTGGAGCAGCAAGAGCAGGAGCTGACAGTAGCCCTTGGGCAGCCTGTGCGTCTGTGCTGT
GGGCGGGCTGAGCGTGGTGGCCACTGGTACAAGGAGGGCAGTCGCCTGGCACCTGCTGGC
CGTGTACGGGGCTGGAGGGGCGCCTAGAGATTGCCAGCTTCCTACCTGAGGATGCTGGC
CGCTACCTCTGCCTGGCACGAGGCTCCATGATCGTCCTGCAGAATCTCACCTTGATTACA
GGTGACTCCTTGACCTCCAGCAACGATGATGAGGACCCCAAGTCCCATAGGGACCCCTCG
AATAGGCA CAGTTACCCCCAGCAAGCACCTACTGGACACACCCCCAGCGCATGGAGAAG
AAACTGCATGCAGTACCTGCGGGGAACACCGTCAAGTTCGCTGTCCAGCTGCAGGCAAC
CCACGCCCCACCATCCGCTGGCTTAAGGATGGACAGGCCTTTTCATGGGGAGAACCGCATT
GGAGGCATTTCGGCTGCGCCATCAGCACTGGAGTCTCGTGATGGAGAGCGTGGTGCCCTCG
GACCGCGGCACATACCTGCCTGGTAGAGAACGCTGTGGGCAGCATCCGCTATAACTAC
CTGCTAGATGTGCTGGAGCGGTCCCCGCACCGGCCCATCCTGCAGGCCGGGCTCCCGGCC
AACACCACAGCCGTGGTGGGCAGCGACGTGGAGCTGCTGTGCAAGGTGTACAGCGATGCC
CAGCCCCACATCCAGTGGCTGAAGCACATCGTCATCAACGGCAGCAGCTTCGGAGCCGAC
GGTTTTCCCCTATGTGCAAGTCTTAAAGACTGCAGACATCAATAGCTCAGAGGTGGAGGTCT
CTGTACCTGCGGAACGTGTGAGCCGAGGACGCAGGCGAGTACACCTGCCTCGCAGGCAAT
TCCATCGGCCTCTCCTACCAGTCTGCCTGGCTCACGGTGCTGCCAGAGGAGGACCCACA
TGGACCGCAGCAGCGCCCCGAGGCCAGGTATACGGACATCATCCTGTACGCGTCGGGCTCC
CTGGCCTTGGCTGTGCTCCTGCTGCTGGCCGGGCTGTATCGAGGGCAGGCGCTCCACGGC
CGGCACCCCCCGCCCGCCGCACTGTGCAGAAGCTCTCCCGCTTCCCTCTGGCCCGACAG
TTCTCCCTGGAGTCAGGCTCTTCCGGCAAGTCAAGCTCATCCCTGGTACGAGGCGTGCGT
CTCTCCTCCAGCGGCCCCGCCTTGCTCGCCGGCCTCGTGAGTCTAGATCTACCTCTCGAC
CCACTATGGGAGTTCCCCCGGGACAGGCTGGTGCTTGGGAAGCCCCTAGGCGAGGGCTGC
TTTGGCCAGGTAGTACGTGCAGAGGCCTTTGGCATGGACCCTGCCCGGCTGACCAAGCC
AGCACTGTGGCCGTCAAGATGCTCAAAGACAACGCCTCTGACAAGGACCTGGCCGACCTG
GTCTCGGAGATGGAGGTGATGAAGCTGATCGGCCGACACAAGAACATCATCAACCTGCTT
GGTGTCTGCACCCAGGAAGGGCCCCCTGTACGTGATCGTGGAGTGCGCCGCAAGGGAAAC
CTGCGGGAGTTTCTGCGGGCCCCGGCGCCCCCAGGCCCGACCTCAGCCCCGACGGTCCT
CGGAGCAGTGAGGGGCGGCTCTCCTTCCCAGTCTCGGTCTCCTGCGCCTACCAGGTGGCC
CGAGGCATGCAGTATCTGGAGTCCCGGAAGTGTATCCACCGGGACCTGGCTGCCCCGAAT
GTGCTGGTGACTGAGGACAATGTGATGAAGATTGCTGACTTTGGGCTGGCCCCGCGCGTC
CACCACATTGACTACTATAAGAAAACCAGCAACGGCCGCCTGCCTGTGAAGTGGATGGCG
CCCCAGGCCTTGTTTGGACCGGTGTACACACACCAGAGTGACGTGTGGTCTTTTGGGATC
CTGCTATGGGAGATCTTACCCTCGGGGGCTCCCCGTATCCTGGCATCCCGGTGGAGGAG
CTGTTCTCGCTGCTGCGGGAGGGACATCGGATGGACCGACCCCCACACTGCCCCCAGAG
CTGTACGGGCTGATGCGTGAGTGCTGGCACGCAGCGCCCTCCAGAGGCCTACCTTCAAG
CAGCTGGTGGAGGCGCTGGACAAGGTCTGCTGGCCGTCTCTGAGGAGTACCTCGACCTC
CGCCTGACCTTCGGACCTATTCCCCCTCTGGTGGGGACGCCAGCAGCACCTGCTCCTCC
AGCGATTCTGTCTTCAGCCACGACCCCTGCCATTGGGATCCAGCTCCTTCCCCTTCGGG
TCTGGGGTGCAGACATGAGCAAGGCTCAAGGCTGTGCAGGCACATAGGCTGGTGGCCTTG
GGCCTTGGGGCTCAGCCAAGCCTGACACAGTGCTCGACCTTGATAGCATGGGGCCCCCTG
GCCAGAGTTGCTGTGCCGTGTCCAAGGGCCGTGCCCTTGGCCTTGGAGCTGCCGTGCCT
GTGTCTGATGGCCCAAATGTGAGGGTTCTGCTCGGCTTCTTGGACCTTGGCGCTTAGTC
CCCATCCCGGGTTTGGCTGAGCCTGGCTGGAGAGCTGCTATGCTAAACCTCCTGCCTCCC
AATACCAGCAGGAGGTTCTGGGCCTCTGAACCCCTTTTCCCCACACCTCCCCCTGCTGCT
GCTGCCCCAGCGTCTTGACGGGAGCATTGGCCCCCTGAGCCCAGAGAAGCTGGAAGCCTGC
CGAAAACAGGAGCAAATGGCGTTTTATAAATTATTTTTTTTG

Gene 254. >ENST0000292410 cDNA sequence

CCGAGGAGCGCTCGGGCTGTCTGCGGACCCTGCCGCGTGCAGGGGTCGCGGCCGGCTGGA
GCTGGGAGTGAGGCGGCGGAGGAGCCAGGTGAGGAGGAGCCAGGAAGGCAGTTGGTGGGA
AGTCCAGCTTGGGTCCCTGAGAGCTGTGAGAAGGAGATGCGGCTGCTGCTGGCCCTGTTG
GGGGTCTGCTGAGTGTGCCTGGGCCTCCAGTCTTGTCCCTGGAGGCCTCTGAGGAAGTG
GAGCTTGAGCCCTGCCTGGCTCCAGCCTGGAGCAGCAAGAGCAGGAGCTGACAGTAGCC
CTTGGGCAGCCTGTGCGTCTGTGCTGTGGGCGGGCTGAGCGTGGTGGCCACTGGTACAAG
GAGGGCAGTCGCCTGGCACCTGCTGGCCGTGTACGGGGCTGGAGGGGCCGCTAGAGATT

FIGURE 1 (CONT'D)

GCCAGCTTCCTACCTGAGGATGCTGGCCGCTACCTCTGCCTGGCACGAGGCTCCATGATC
 GTCCTGCAGAATCTCACCTTGATTACAGGTGACTCCTTGACCTCCAGCAACGATGATGAG
 GACCCCAAGTCCCATAGGGACCCCTCGAATAGGCACAGTTACCCCAAGCAAGCACCTAC
 TGGACACACCCCAAGCGCATGGAGAAGAACTGCATGCAGTACCTGCGGGGAACACCGTC
 AAGTTCCGCTGTCCAGCTGCAGGCAACCCACGCCCACCATCCGCTGGCTTAAGGATGGA
 CAGGCCTTTTCATGGGGAGAACCGCATTGGAGGCATTTCGGCTGCGCCATCAGCACTGGAGT
 CTCGTGATGGAGAGCGTGGTGCCCTCGGACCGCGGCACATACACCTGCCTGGTAGAGAAC
 GCTGTGGGCAGCATCCGCTATAACTACCTGCTAGATGTGCTGGAGCGGTCCCGCACCGG
 CCCATCCTGCAGGCCGGGCTCCCGGCCAACACCACAGCCGTGGTGGGCAGCGACGTGGAG
 CTGCTGTGCAAGGTGTACAGCGATGCCAGCCCCACATCCAGTGGCTGAAGCACATCGTC
 ATCAACGGCAGCAGCTTCGGAGCCGACGGTTTCCCCTATGTGCAAGTCTAAAGACTGCA
 GACATCAATAGCTCAGAGGTGGAGGTCTGTACCTGCGGAACGTGTAGCCGAGGACGCA
 GCGGAGTACACCTGCCTCGCAGGCAATTCCATCGGCCTCTCCTACCAGTCTGCCTGGCTC
 ACGGTGCTGCCAGGTACTGGGCGCATCCCCACCTCACATGTGACAGCCTGACTCCAGCA
 GGCAGAACCAAGTCTCCCACTTTGCAGTTCTCCCTGGAGTCAGGCTCTTCCGGCAAGTCA
 AGCTCATCCCTGGTACGAGGCGTGCCTCTCTCCTCCAGCGGCCCCGCTTGCTCGCCGGC
 CTCGTGAGTCTAGATCTACCTCTCGACCCACTATGGGAGTTCCCCCGGGACAGGCTGGTG
 CTTGGGAAGCCCCCTAGGCGAGGGCTGCTTTGGCCAGGTAGTACGTGCAGAGGCCTTTGGC
 ATGGACCCTGCCCGGCTGACCAAGCCAGCACTGTGGCCGTCAAGATGCTCAAAGACAAC
 GCCTCTGACAAGGACCTGGCCGACCTGGTCTCGGAGATGGAGGTGATGAAGCTGATCGGC
 CGACACAAGAACATCATCAACCTGCTTGGTGTCTGCACCCAGGAAGGGCCCCCTGTACGTG
 ATCGTGGAGTGCGCCGCCAAGGGAAACCTGCGGGAGTTCTGCGGGCCCGCGCCCCCA
 GGCCCCGACCTCAGCCCCGACGGTCTCGGAGCAGTGAGGGGCCGCTCTCCTTCCCAGTC
 CTGGTCTCCTGCGCCTACCAGGTGGCCCCGAGGCATGCAGTATCTGGAGTCCCGGAAGTGT
 ATCCACCCGGGACCTGGCTGCCCGCAATGTGCTGGTGACTGAGGACAATGTGATGAAGATT
 GCTGACTTTGGGCTGGCCCGCGGCGTCCACCAATTGACTACTATAAGAAAACAGCAAC
 GGCCGCCTGCCTGTGAAGTGGATGGCGCCCGAGGCCTTGTTTGACCGGGTGTACACACAC
 CAGAGTGACGTGTGGTCTTTTGGGATCCTGCTATGGGAGATCTTCAACCTCGGGGGCTCC
 CCGTATCCTGGCATCCCGGTGGAGGAGCTGTTCTCGCTGCTGCGGGAGGGACATCGGATG
 GACCGACCCCCACACTGCCCCCCAGAGCTGTACGGGCTGATGCGTGAGTGCTGGCACGCA
 GCGCCCTCCCAGAGGCCTACCTTCAAGCAGCTGGTGGAGGCGCTGGACAAGGTCTGTCTG
 GCCGTCTCTGAGGAGTACCTCGACCTCCGCCTGACCTTCGGACCCCTATTCCCCCTCTGGT
 GGGGACGCCAGCAGCACCTGCTCCTCCAGCGATTCTGTCTTCAGCCACGACCCCCCTGCCA
 TTGGGATCCAGCTCCTTCCCCCTTCGGGTCTGGGGTGACACATGAGCAAGGCTCAAGGCT
 GTGCAGGCACATAGGCTGGTGGCCTTGGGCCTTGGGGCTCAGCCACAGCCTGACACAGTG
 CTCGACCTTGATAGCATGGGGCCCCCTGGCCAGAGTTGCTGTGCCGTGTCCAAGGGCCGT
 GCCCTTGCCCTTGGAGCTGCCGTGCCTGTGTCTGATGGCCCAAATGTCAGGGTTCTGCT
 CGGCTTCTTGGACCTTGGCGCTTAGTCCCCATCCCGGGTTTGGCTGAGCCTGGCTGGAGA
 GCTGCTATGCTAAACCTCCTGCCTCCCAATACCAGCAGGAGGTTCTGGGCCTCTGAACCC
 CCTTTCCCCACACCTCCCCCTGCTGCTGCTGCCCCAGCGTCTTGACGGGAGCATTGGCCC
 CTGAGCCCAGAGAAGCTGGAAGCCTGCCGAAAACAGGAGCAAATGGCGTTTTATAAATTA
 TTTTTTTG

Gene 255. >ENST00000298607 cDNA sequence

GAGCTAGCATCACCTGAGAAAGCAGGCTGGCCCCAGGACTCACGGGCGTCCATGCAGCT
 GATGGAGGGGAGCTGGACCGGACGACTGTGCTCTCTTAGCTCTAGCATCACCTGAGAAA
 GCAGCCTGTCTCCGGGACTCACGGGCATCCATGCGGCTGATGGAGGGAGCTGGGCCGGAC
 GACTGTGCTTCTCGTGCTTCATGTAGAACCCTTAGGTTTGGCCCTGAAGTCTGTCTGCTC
 CATGTACTATTTAGTTGCTTTTCAGCATAGAGCTTGGTTTTCCCTTTTTTTAATTGTAAG
 AATGATGTGCTCTGGCATGTCACTGTGAAAGGGGACCAGATGATGGAGCCTGGACTGA
 AAGGGTGAATGGGGCCGCTCACCTCAGAACTCTCCCTGCTTTGCTTTGCTGGGAGCAGGG
 AGCAGGGCAGCCTGGGAGAGGCTGGAGTTCCTCAAAGGGCAGAGAAGAATGGCCTTCAGG
 GGACCACAGGGAGGAACCATGCCATGATAGACTCAAAAAGCTAGATTATGCTAATAAAAA
 GGGGAAGACATCTGTGACACACAGGAAACAGTGTTCTGTGGCCTTGCCATAGAAGGCGCAG
 TAAAGGAGGAAAACCTCCGGAGACTCCCTGTGAATTCTTGGCTAAGAATGCACGTTATCTG

FIGURE 1 (CONT'D)

CAGTGATCTAAAAACACAAACGAGAACAGAAGTGAGTGGCCCTACCTGTGAGATGCACAG
 TGCTGAGCGGCACCCAGCGCTGGCTGCAGGATGGGAGGCTGGCTGCCGTATGATTGTTTCG
 TGGGAAGAAATTTTGTAGAAGTTATCAAGCTCCTTAAATGTTTCGTGCTGTGTCTGCCTG
 GACAGTTGCAATTCTGAGAAGCGATCCTTGAAAATGATTCTGGGTATAGAAAAGGTACA
 GCACAGTGGTGTCTTAGTATGGCTGTTTACAGTCGCAGAAAATGAGATGCTAAACTGCT
 GCCCTAGGGGATTGGTTAAGCAAACCTGGTGCTTCCACTCCATGAGATAGGATGCAGCCAT
 TTGAAATATTTATGAAGGTTTTGGACAGTCATTTGGAATAATGGTTTTGTTGGGGCTCTT
 AACTTGCAAGCCAATAGAAAAGAAATCTGGCTAATATAATCCTATAAATTATTTCCCTAC
 AGCCCATTTTTAAGGTTCCAGTAACCTTCAGAATCAAAGGAGACATCGGATGGCCAGGC
 CTCAGTAGTGGAAGGCCAGGCAGTTCCAGATCCCTGCAGCCTGCCACTACCCCGAGTC
 TCTCCAGGTCAACAGCCAGGCTTGGGGGTGATGGAGGAGGACTCGGTAAGGGACAGTTCA
 CTTGGCAAATGTTTAGGGAGCACCTGCTGTGGCCAGGCATTGCCCTAGAGGCAGGGAATA
 TGATAGAAATTGCGGCAGTACAGGAAGGTAAGGTCCCTGTACCGCAGAGCTCACAGTCTC
 ATGGGAAGGAGTTCTTACACAGGTGAGGTAAGTGTTAGGGAGAACTAAAGCCAGGTAAT
 GAGAGAGGGCAGTGGGGCTGCAGAGGCTGGGGTGAGCCACAGACTACTGTAGACACGGTA
 GCAACGTAGGTCTCTTAAGAAAGTGACACACAACGTAGGCCTAATCACAGCACTTTGGGA
 GGCCAAGGTGGGAGGATCACTGAGACCAGCCTGGGCAACATAGAGAGACCCTGTCTCTGT
 Gene 256. >ENST00000292599 cDNA sequence
 CGGCCGCGGCGGTAGCGCGGAAAAAATGGGGCCGGGGCGGTGGGGAGAGGCCGAGGCTT
 GAGGTAGGCAGCAAGCGCCGGCTGGGGGTGCGGCCGAGCGGGGCAGGAGGAAAAACCCGCC
 GCCGCGCGAGCCCGCTCCGCTGCCCTCGGGGCGATGGCGCGGCCGTGAGGCGGAGAGG
 GGTAGCCGCGGGGAGCGAAGCCCGCAGTGCCAGCCGGCCCCGAGAGGCCCGGCCCGGGC
 CCGGCCCGTGAGCCCGCGGCCCATGGTGCTGCCACCTGCCCATGGCGGAGTTTCGCGC
 TGCCGCGGCACAGCGCGGTATGGAGCGCCTTCGCCGGCGCATCGAGCTGTGCCGCGCC
 ACCACAGCACCTGCGAGGCCCGCTACGAGGCCGTGTGCCCGAGCGCCTGGAGCTGGAGC
 GCCAACACACCTTCGCCCTGCACCAGCGCTGCATCCAGGCCAAGGCCAAGCGCGCCGGGA
 AGCACAGGCAGCCCGCCCGCCACCGCCCCGGCGCCCGCCCGCCCGGCCCGCGCCTGG
 ACGCCGCTGACGGCCCCGAGCACGGCCCCGGCCACGCATCTTCATGATACAGTTAAGA
 GGAATCTTGACAGCGCCACTTCCCCCTCAGAATGGCGATCAACAGAATGGCTACGGGGACC
 TCTTTCCTGGGCATAAGAAGACTCGCCGGGAGGCCCCCTCTGGGAGTTGCCATCTCTCCA
 ATGGACTGCCTCCAGCCTCCCCCTCGGTCACTGTGACAAGCCTTCTGGAGCCGACGCCC
 TGCAGTCCAGTGGAAGCACTCTCTGGGGCTAGACTCTCTCAACAAAAGCGTCTGGCTG
 ACTCCAGCCTTCACTTGAATGGAGGCAGTAACCCAGTGAGTCATTTCTCTGAGCCTGA
 ATAAAGAACTGAAGCAGGAGCCTGTGCAAGACCTGCCTTGATGATCACTGGGACTGTG
 GCTCCATATCGCAAAGCAACCTCATGCCAGACCTCAACCTTAACGAGCAGGAGTGGAAGG
 AGCTCATCGAGGAGCTGAACAGGTGGTGCCCGATGAAGACATGAAGGACCTGTTTAATG
 AGGACTTCGAGGAGAAGAAGGACCCAGAGTCTTCTGGCTCTGCCACACAAACCCCTTGG
 CACAGGACATTAATATTAAGACGAATTCTCTCCAGCAGCCTTTGAGCAAGAACAGTTAG
 GCTCTCCACAAGTGAGGGCCGGGTCTGCAGGGCAGACCTTTCTGGGGCCTTCTCTGCCC
 CTGTGAGTACAGATTCCCCCAGCCTAGGGGGCTCCCAAACCTTATTCACACCTCTGGTC
 AGCCCCGGGCGGACAATCCAGTCCAAACCTGATGCCGGCATCAGCCCAGGCCCAGAACG
 CACAAAGAGCCCTTGCAAGGTGTGGTATTGCCAGTCAGGGCCAGGAGGGGCCTCAGAGC
 TGTCTCTGCCCACCAGCTCCAGCAGATCGCTGCCAAGCAGAAGCGCGAGCAGATGCTCC
 AGAACCCACAGCAGGCCACCCCGGCACCAGCCCCGGGCCAGATGTCCACATGGCAGCAGA
 CGGGGCCCTCCACAGTTCTTAGATGTCCCTTACCCCATGGAGAAGCCTGCCAGCCCTT
 CCAGCTACAAGCAAGACTTCACTAACTCCAACTGCTCATGATGCCTAGTGTGAATAAGA
 GTTCCCCCTCGGCCCGGAGGCCCTACCTCCAGCCAGCCATGTGAACCTGCTGAGTCACC
 AGCCACCGAGTAACTTGAATCAGAACTCCGCGAATAACCAGGGGTCTGTGCTGGACTACG
 GCAATACAAAACCCCTTCTCATTACAAAGCGGACTGTGGGCAAGGCAGCCCGGGGTCTG
 GCCAGAGCAAGCCAGCCCTGATGGCTTATCTTCCCCAGCAGCTGTCCCATATAAGTCACG
 AGCAGAACTCCCTGTTTCTGATGAAGCCAAAGCCAGGAAATATGCCTTTCCGATCACTGG
 TTCCACCTGGCCAGGAGCAGAACCTTCCAGTGTCCCTGTGCAAGCCCAGGCTACCAGTG
 TTGGGACCCAGCCGCTGCCGTGTCCGTGGCCAGCTCCCAACAGCTCCCCCTATCTCA
 GCAGCCAGCAACAGGCCGCTGTAATGAAGCAGCATCAGTTGCTTTTGGACCAACAGAAAC

FIGURE 1 (CONT'D)

AAAGGGAGCAGCAGCAAAAGCATTACAGCAACAGCAGTTCCTTCAGAGGCAACAGCACC
 TTCTCGCGGAACAGGAGAAGCAACAGTTTCAGCGCCATCTGACCCGCCACCACCCAGT
 ACCAAGACCCGACACAAGGCAGCTTCCACAGCAGGTTGGACAGTTCACAGGGTCTCTG
 CTGCCGTGCCCGGCATGAACACCTTGGGTCCATCCAACCTCAGCTGTCTCGAGTGTTCC
 CTCAGGCTGGGAATCTGATGCCAATGGGCCCTGGACATGCTTCAGTTTCCTCTCTCCCA
 CAAACTCAGGCCAACAGGACCGGGGTGTGGCTCAGTTCCTGGCTCCAAAACATGCCTC
 AGAGCAGCCTCTATGGCATGGCTTCTGGCATAACCCAGATAGTTGCCAGCCCCCGCCAC
 AGGCCACCAATGGACATGCCACATTCCACGGCAGACCAACGTGGGCCAGAACACCTCCG
 TCTCAGCTGCCTATGGGCAGAACTCTCTGGGAAGCTCTGGCCTCTCCAGCAGCACAATA
 AGGGGACCCTGAACCTGGTTTAAACAAAGCCACCGGTCCCAAGGGTGTACCAGCCATGG
 GAGGCCAGAATTCCTCCTGGCAGCATCAGGGAATGCCGAACCTCAGTGGCCAGACCCAG
 GGAACAGCAACGTGAGTCCCTTCACTGCAGCCTCCAGTTTCCACATGCAGCAGCAGGCCC
 ACCTGAAAATGTCTAGCCCGCAATTCTCCAGGCAGTGCCCAACAGGCCCATGGCTCCCA
 TGAGCTCAGCAGCTGCCGTGGGGTCTTGCTACCCCCAGTGAGTGCACAGCAGAGGACCA
 GCGCCCCTGCCCCAGCACCACCCCCAACAGCCCCCTCAGCAGGGCTTGCTGGCCTGAGCC
 CAGCAGGGCCTGAGCTGGGGGCCTTCAGCCAGAGCCCTGCCTCACAGATGGGCGGTGGG
 CGGGGCTGCACTGCACCCAGGCCTACCCTGTGCGGACCGCGGGCCAGGAGCTGCCTTTTG
 CCTATAGCGGGCAGCCAGGTGGCAGTGGGCTCTCTAGTGTGGCTGGACACACCGATCTGA
 TCGACTCCCTGCTGAAGAACAGGACTTCAGAGGAGTGGATGAGTGATTTGGACGACCTGT
 TAGGGTCTCAGTAATGGAAGGATTTGTAGTGTTTTTAGTGTTCAATTCATCCTATATTTTT
 ATTCTCAGATTCAAAGAAAGAGCAACTACTTTGGACCAAAGCCCATGGCCTGGGGAGCT
 GGGCAGGTAGAGCCCAAGCTCCAGGTGAGGCCTGGCCCTGGGCAGGGTCTGTGGCTGCGC
 CCCTCAGGCCAGCAGTTGAGGTCCATCGGGCTGGCCCCAGCCCATCTGCTGGCATCAGTA
 CCTGGTGTGGGACAGCAGGATAGGGTTCTAAAGGTGGTTTTCTATCCAAACGACCAAAA
 AACCAACAGTAACACCAGTGAAACCCCACTGTGCGGGCTTATAAAAATCTGTGCCATCA
 TGGTGATTTTTATCCAAGACTGCTCCACTTACCCAGTGCTGGGGACAAGTTTTCTGTTGAA
 ACTTTAGATAGCAGAATTATTTGCAATTTGTAGCATAGAAAAGATTTTTTAAATTTTTTT
 ACAAAGGTTTTTAAACAGATTAGGGTAGGTGATGGTTTAAATCAATTAAGTGGCATTGG
 AAACCTAGGGTTTTCTTTTGATTAAGAGCCTTTTTTGTTTCTGCTCTTTGTGAGCTTTCA
 GGGGAGAAGGAGGCCACTGGAAAATTATTTCCCTAAGTGCAGGCTGTTGACTGCGTATGC
 CAAAAGGGACAGGAGGCATGGGATAGCAGGTCTGGTGACACAGCTAGGGTCTTCCTAGC
 AGCTCCTCCTCCTCCCTCCCAAGGCCCCAGGAATCCCTTCTCCTCCCATGTCTGGCAGCA
 GGACCCAGGCTACATATGGAAGGTAGAGATGTGGGGGTCTGTATCCTGGAGTATTATG
 TCTCCCCACCTTCTGCAGTTTTCTCTGAACATGTATGTTGCCCATGGTGGGAGCGTGGTC
 ACTGTGCAGTTGTGCACAGATGTCTTTCTTTTACCGTTGGCCTTTCTGTCTGCCTCTCCT
 TCCTCTCTGCAGCCCAATGGAAAACAATTATTTACTCCATTGGAGGGAAAGGAAGAGTC
 TTAGAATTCTAAGGGAACCTTAGCATAAAGGTTTTTGGGGAAGGAGGCCGTAGGCCGGCC
 CGGAGGAAGCAATTCACCTTGGTTTTGACAACTTCTGCCACTCCCATGTGAGATGACTTGC
 ACTTCTTAAAGAGATTGCTTTTATAACACTAAGACATCCTTTCTAAAGATTCAAGTGGACT
 TGACTAAGCTGAGGGTCCACGAAATAGAATATGACATGTGAGCTGTTTTTGGAAAACGAA
 GATGGAGAGAGCACTTCCCCGTAACGAAAGCAAAGTGGTAAGCACAGGGTGAACCCCTTT
 TACACAGAATGGTGGAGAGAAAAGAGAATGCTGAAAAGTGGCTCAGATGCAGAGTGTTCT
 GTGGAGAACTGCAGCCCCACTTCTGTTTCCCTGGAGTCTCCCAATGGATCATTAGGAG
 TGTCTATGTGAGAATTGAGCCAAAGGAAATACTCATGCAACCAGCCTGAGTCGCGGTGA
 GGGGACGAGAGGTTGTACACACATTGGTAGTTATTTTGACCAGCAGTGCCTTTCTCACT
 GGGGGTACTTGGACCTCAGATCTTCTTTTCTAATAGCCATTTGCCACCCCAAGTGGTAT
 GTCGGCCATTTCTCCTTAAACAACCTTCCCTACCTTTCCCATGTACTCAGTTTAGCTCTC
 AAAGAAGGGGTGAATCATAAAGCCAGTGAAAATTTACCCCTCTGAGGGAGTTCCCAATC
 TGAAGGGGAAGAGGGTGACCTCAGCGGCTTTTCTCCAAAATCGGCTGAAGGCTGGTTG
 TGGATCCTTGTTCTCCTGACCCCATCTGGCTGCTGCCCCGTCTCCACCCCTGTCCC
 CGGGGCTCGCTGGCCCTGCACTCCGCCTTAGTCCTGGGGCCGGCGACACAGTGGGGGCTC
 CTCACTTGCTGCAGTGTGATAGCAATAAAATGTGATTCTTGGGGTCCCCCAGGGAGCTG
 CCCATGGCTTTATTTATGAACCTGGTTTTCGGGAGTCAGGGGAGGAGATGACTTTGCTTC
 TGTGCACAGCCCCGTCTTCCAGGAGCCACAACTCAGAAGAAAAGGGTGCTCAGACTTTTG

FIGURE 1 (CONT'D)

TTATACACATTTGCTTTGTGTAAATAAATGTTTACAATTTTATATGAAAGATGGAATAAG
CGCTAGAGCTTCCAAGTGTATATTTTTTACTTTTATAGATTTTAAACTATGATCCTTTA
TATGTGTGTTTTGGGGGAGCTATGATAAGTTTTATGGCAAACGGTTGGTATTGTTAACTT
TTTATTGTGTCATCAAAAGTTCATAAAAGTCCTATTAATCCCATATTCTTCTACTGCCCTT
AACTCTGGTATACACCAAAAAGAAATCTTTACTTTCTTGTGTTTTATCATTATAAAAATAA
AGTATTTTGCTAGTATGG

Gene 257. >ENST00000292596 cDNA sequence

CTGCTCTTCTCTCCTGGGCCGTCCTCTGAGCAGCAGACGGGGCTAAGCGTTCCCAGCT
CGCCTTTCACACACAGCCCGTGCACCACACCGACGGTACCATGAAGGACGAGGTAGCTCT
ACTGGCTGCTGTCAACCTCCTGGGAGTCCTGTGCAAGCCTACTTCTCCCTGCAGGTGAT
CTCGGCGCGCAGGGCCTTCCGCGTGTGCGCCGCGCTCACCACCGGCCACCCGAGTTCGA
GCGCGTCTACCGAGCCAGGTGAACTGCAGCGAGTACTTCCGCTGTTCTCGCCACGCT
CTGGGTGCGCGGCATCTTCTTTTATGAAGGGGCGCGGCCCTGTGCGGCCTGGTCTACCT
GTTGCGCGCCTCCGCTACTTCCAGGGCTACGCGCGCTCCGCGCAGCTCAGGCTGGCACC
GCTGTACGCGAGCGCGCGCCCTCTGGCTGTGGTGGCGCTGGCTGCGCTCGGCCTGCT
CGCCCACTTCTCCCGGCCGCGCTGCGCGCCGCGCTCCTCGGACGGCTCCGACGCTGCT
GCCGTGGGCCTGAGACCAAGGCCCCGGGCCGACGGAGCCGGGAAAGAAGAGCCGGAGCC
TCCAGCTGCCCCGGGGAGGGGCGCTCGCTTCCGCATCCTAGTCTCTATCATTAAAGTTCT
AGTGACCG

Gene 258. >ENST00000292588 cDNA sequence

GCCAGCTCGCCGCTCGCTATGGCGTCGCTACCGTGAAGGCCTACCTTCTGGGCAAGGAG
GACGCGGCGCGCAGATTGCGCGCTTCAGCTTCTGCTGCAGCCCAGGCCTGAGGCGGAA
GCCGAGGCTGCGGCGGGTCCGGGACCTGCGAGCGGCTGCTGAGCCGGGTGGCCGCCCTG
TTCCCCGCGCTGCGGCCTGGCGGCTTCCAGGCGCACTACCGCGATGAGGACGGGGACTTG
GTTGCCTTTTCCAGTGAAGGAATTGACAATGGCCATGTCTTACGTGAAGGATGACATC
TTCCGAATCTACATTAAAGAGAAAAAAGAGTGCCGGCGGGACCAACGCCCCACCGTGTGCT
CAGGAGGCGCCCCGCAACATGGTGCACCCCAATGTGATCTGCGATGGCTGCAATGGGCCT
GTGGTAGGAACCCGCTACAAGTGCAGCGTCTGCCAGACTACGACTTGTGTAGCGTCTGC
GAGGGAAAGGGCTTGCACCGGGGGCACACCAAGCTCGCATTCCCCAGCCCCCTTCGGGCAC
CTGTCTGAGGGCTTCTCGCACAGCCGCTGGCTCCGGAAGGTGAAACACGGACACTTCGGG
TGGCCAGGATGGGAAATGGGTCCACCAGGAACTGGAGCCACGTCCTCCTCGTGCAGGG
GAGGCCCGCCCTGGCCCCACGGCAGAATCAGCTTCTGGTCCATCGGAGGATCCGAGTGTG
AATTTCTGAAGAACGTTGGGGAGAGTGTGGCAGCTGCCCTTAGCCCTCTGGGCATTGAA
GTTGATATCGATGTGGAGCACGGAGGGAAAAGAAGCCGCTGACCCCGTCTCTCCAGAG
AGTTCCAGCACAGAGGAGAAGAGCAGCTCACAGCCAAGCAGCTGCTGCTCTGACCCAGC
AAGCCGGGTGGGAATGTTGAGGGCGCCACGCAGTCTCTGGCGGAGCAGATGAGGAAGATC
GCCTTGGAGAGCCAGGGCCATGTTTTGTTCCAGGAACAGATGGAGTCGGATAACTGTTCA
GGAGGAGATGATGACTGGACCCATCTGTCTTCAAAGAAGTGGACCCGTCTACAGGTGAA
CTCCAGTCCCTACAGATGCCAGAATCCGAAGGGCCAAGCTCTCTGGACCCCTCCAGGAG
GGACCCACAGGGCTGAAGGAAGCTGCCTTGTACCCACATCTCCCGCCAGGCAACACCACT
CCTCATGGCTTCCTTACTGTTTTCGGCAGAGGCTGACCCGCGGCTGATTGAGTCCCTCTCC
CAGATGCTGTCCATGGGCTTCTCTGATGAAGGCGGCTGGCTCACCAGGCTCCTGCAGACC
AAGAACTATGACATCGGAGCGGCTCTGGACACCATCCAGTATTCAAAGCATCCCCCGCG
TTGTGA

Gene 259. >ENST00000292591 cDNA sequence

CCTGCCTCTGCCCTTCTGAGCCTGTTCTCTTCCCTGAGTACAGGGCACAAAGCTTGCGC
CCTGAGGGGCGGCCGGCGCGCTCCCTGGCCCGGTCCCCGCCGGCCCCGGGCCCCCGCC
CCTCCCCGACCCGGGGCCGGGGCCCCCTGCCGCCGCCGCCGCCCTTCCGACCCCTGCGC
CCCGGCCCGGTCCCCGGGCCATGCAGCCTCGGCCCGCGGGCGCCCGCGCGCACCCG
AGGAGATGAGGCTCCGCAATGGCACCTTCTGACGCTGCTGCTCTTCTGCCTGTGCGCCT
TCCTCTCGCTGTCTGGTACGCGGCACTCAGCGGCCAGAAAGGCGACGTTGTGGACGTTT
ACCAGCGGGAGTTCTGGCGCTGCGCGATCGGTTGCACGCAGCTGAGCAGGAGAGCCTCA
AGCGCTCCAAGGAGCTCAACCTGGTGTGTCGACGAGATCAAGAGGGCCGTGTGAGAAAGGC
AGGCGCTGCGAGACGGAGACGGCAATCGCACCTGGGGCCGCTAACAGAGGACCCCCGAT

FIGURE 1 (CONT'D)

TGAAGCCGTGGAACGGCTCACACCGGCACGTGCTGCACCTGCCACCGTCTTCCATCACC
 TGCCACACCTGCTGGCCAAGGAGAGCAGTCTGCAGCCCGCGGTGCGCGTGGGCCAGGGCC
 GCACCGGAGTGTGCGTGGTGATGGGCATCCCGAGCGTGCAGCGCGAGGTGCACTCGTACC
 TGA CTGACACTCTGCACTCGCTCATCTCCGAGCTGAGCCCGCAGGAGAAGGAGGACTCGG
 TCATCGTGGTGTGATCGCCGAGGCGAGGTGCTTGGTCTCCCCACAGACTGACTCACAGT
 AACTTCGGCAGTGACAGAGAACATCAAGGCCTTGTTCGCCACGAGATCCATTCTGGGC
 TCCTGGAGGTCTCTACCCCTCCCCCACTTCTACCCTGACTTCTCCCGCCTCCGAGAGT
 CCTTTGGGGACCCCAAGGAGAGAGTCAAGGTGGAGGACCAAACAGAACCTCGATTACTGCT
 TCCTCATGATGTACGCGCAGTCCAAAGGCATCTACTACGTGCAGCTGGAGGATGACATCG
 TGGCCAAGCCCAACTACCTGAGCACCATGAAGAACTTTGCACTGCAGCAGCCTTCAGAGG
 ACTGGATGATCCTGGAGTTCTCCAGCTGGGCTTCATTGGTAAGATGTTCAAGTCGCTGG
 ACCTGAGCCTGATTGTAGAGTTTATTCTCATGTTCTACCGGGACAAGCCCATCGACTGGC
 TCCTGGACCATATTCTGTGGGTGAAAGTCTGCAACCCCGAGAAGGATGCGAAGCACTGTG
 ACCGGCAGAAAGCCAACCTGCGGATCCGCTTCAAACCGTCCCTCTTCCAGCACGTGGGCA
 CTCACTCCTCGCTGGCTGGCAAGATCCAGAACTGAAGGACAAAGACTTTGGAAAGCAGG
 CGCTGCGGAAGGAGCATGTGAACCCGCCAGCAGAGGTGAGCACGAGCCTGAAGACATACC
 AGCACTTCACCTGAGAAAGCCTACCTGCGCGAGGACTTCTTCTGGGCCTTCACCCCTG
 CCGCGGGGGACTTCATCCGCTTCCGCTTCTTCCAACCTCTAAGACTGGAGCGGTTCTTCT
 TCCGCACTGGGAACATCGAGCACCCGAGGACAAGCTCTTCAACACGTCTGTGGAGGTGC
 TGCCCTTCGACAACCTCAGTCAGACAAGGAGGCCCTGCAGGAGGGCCGCACCGCCACCC
 TCCGGTACCTCGGAGCCCCGACGGCTACCTCCAGATCGGCTCCTTCTACAAGGGAGTGG
 CAGAGGGAGAGGTGGACCCAGCCTTCGGCCCTCTGGAAGCACTGCGCCTCTCGATCCAGA
 CGGACTCCCCTGTGTGGGTGATTCTGAGCGAGATCTTCTGAAAAGGCCGACTAAGCTG
 CGGGCTTCTGAGGGTACCCTGTGGCCAGCCCTGAAGCCACATTTCTGGGGGTGTCTCA
 CTGCCGTCCCCGAGGGCCAGATACGGCCCCGCCAAAGGGTTCTGCCTGGCGTGGGGCT
 TGGGCCGGCCCTGGGGTCCGCCGCTGGCCCGGAGGCCCTAGGAGCTGGTGCTGCCCCGCC
 CGCCGGGCCCGGAGGAGGAGGCGGCCGCCACACTGTGCCTGAGGCCCGGAACCGTTCTG
 CACCCGGCCTGCCCCAGTCAGGCCGTTTTAGAAAGAGCTTTTACTTGGGCGCCCGCGTCT
 CTGGCGCGAACACTGGAATGCATATACTACTTTATGTGCTGTGTTTTTTATTCTTGATA
 CATTTGATTTTTTTCACGTAAGTCCACATATACTTCTATAAGAGCGTGACTTGTAATAAAG
 GGTAAATG

Gene 260. >ENST00000328625 cDNA sequence

ATGGCGTTCGCTTTCAGCGTTCTCGGGTGCTACGCTGCTGCAGCTGCCGCCTCTTCCAGGCG
 CACCAGGTAAAAAGAGTGTCAAGTGGACATGCAAAGCTTGTGGAGAGAAGCAGTCCTTT
 TTGCAGGCTTATGGTGAAGGCTCTGGTGCTGATTGTAGACGCCATGTCCAAAAGTTAAAT
 CTACTACAGGGACAAGTTTTCAGAGCTGCCACTCAGGTCTCTAGAAGAACTGTCAAGTGCC
 AGTGAAGAAGAAAACGTGGGACACCAGCAGGCTGGGAATGTGAAGCAGCAGGAAAAATCG
 CAGCCCTCAGAGAGTGCCTGGCTGAAGTATCTAGAAAAGGACTCCCAAGAACTGGAGCTG
 GAAGGAACAGGAGTGTGTTTCAGCAAACAGCCTTCATCCAAAATGGAGGAGCCAGGCCCC
 CGCTTCAGTCAAGACCTGCCTAGAAAAGAAACAGAGGCCAGCCAAGGCCAGGACGGG
 CAGGCGGTCTCTGGGCCCTGGCATTGTTCTTACACATGGAGGGCATGGCCATCTTCTC
 TTTCAAGGACAGGCTGGCCTGACATGGAAGGTGAAACAAGGCAGCAGCCCTGCCTCCAG
 GAGAACTCTGCAGACTGCAGTGCCGGGGAGCTGAGGGGTCTGGGAAGGAGCTATGGAGT
 CCCATCCAGCAGGTTACAGCCACATCCTCTAAATGGGCGCAATTTGTCTGCCACCTAGA
 AAAAGTTCACATGTGGACAGTGAGCAGCCAAGGTCTCTTCAAGAGGGACCCAGGCCAGCT
 GGTCCAGCACAGGCTAAGCAAGGGACCCCGAGGACAGGCTCAAGAGAAGGCCTCAGC
 AGGCCACTGCCGCTGTCCAGCTTCTCGGGCCACACACCCCGTCACATCTGGGTCTGAG
 AGGCCTTGCGGAAGACCTCATGGGACGCAAGGACTCCCTGGGCGAGGGGTGGGCCCCCTG
 GTCTGGAGGCACAGAATCCTCGACCCACACGACTATGTGACCTCTTTATAACTGGGGAA
 GACTTCGATGATGATGTGTGA

Gene 261. >ENST00000292586 cDNA sequence

CGTCGCTTTCAGCGTTCTCGGGTGCTACGCTGCTGCAGCTGCCGCCTCTTCCAGGCGCACC
 AGGTAAAAAGAGTGTCAAGTGGACATGCAAAGCTTGTGGAGAGAAGCAGTCCTTTTTCG
 AGGAAAAATCGCAGCCCTCAGAGAGTGCCTGGCTGAAGTATCTAGAAAAGGACTCCCAAG

FIGURE 1 (CONT'D)

AACTGGAGCTGGAAGGAACAGGAGTGTGTTTCAGCAAACAGCCTTCATC CAAAATGGAGG
AGCCAGGCCCGCGCTTCAGTCAAGACCTGCCTAGAAAAAGGAAGTGGAGCAGGAGCACCG
TCCAGCCTCCGTGCAGCCGTGGCGTGCAGGACTCGGGTGGCTCTGAGGTGCGCTGGGGAC
CCCAGAAGGGACAGGCTGGCCTGACATGGAAGGTGAAACAAGGCAGCAGCCCCTGCCTCC
AGGAGAACTCTGCAGACTGCAGTGCCGGGGAGCTGAGGGGTCTGGAAGGAGCTATGGA
GTCCCATCAGCAGGTTACAGCCACATCCTCTAAATGGGCGCAATTTGTCCTGCCACCTA
GAAAAAGTTACATGTGGACAGTGAGCAGCCAAGGTCTCTTCAGAGGGACCCAGGCCAG
CTGGTCCAGCACAGGCTAAGCAAGGGACCCCCAGAGCACAGGCCTCAAGAGAAGGCCTCA
GCAGGCCCACTGCCGCTGTCCAGCTTCCTCGGGCCACACACCCCGTCAATCTGGGTCTG
AGAGGCCTTGCGGGAAGACCTCATGGGACGCAAGGACTCCCTGGGCAGAGGGTGGGCCC
TGGTCTCGGAGGCACAGAATCCTCGACCCACACGACTATGTGACCTCTTTATAACTGGG
AAGACTTCGATGATGATGTGTGATCTGGGACTGGCAGGTTATTAATCGAGATACACTTGT
TAGGAGGGACAGGGTTCCCTAAGGCACTTTTAAAGATACTCTGTAAGAACCATTAAACA
TAACTTACTGTCAATCATTTCTCTCT

Gene 262. >ENST00000318682 cDNA sequence

CTCTCTGCTTCCTCCTGGCTGCCTCCCCCTTCCCTACCAGGTGGGCTCTGTGGTTCTTC
AAGAATGACCGCAGCCGGGCTGGCAGGACAACCTGCACCTGGTCACCAAGGTGGACACT
GTGGAGGACTTCTGGGCGCTATACAGTCACATCAGCTGGCCAGCAAGCTCTCCTCTGGC
TGTGACTACGCCCTCTTCAAGGATGGCATCCAGCCCATGTGGGAGGACAGCAGGAATAAA
CGGGGTGGCCGCTGGCTGGTCAGCCTGGCCAAGCAGCAGCGCCACATTGAGCTGGACCGG
CTGTGGCTGGAGACGCTGCTGTGTCTGATCGGGGAGAGCTTTGAGGAACACAGCAGAGAG
GTATGTGGGGCCGTCGTCAACATCCGCACCAAGGGGGACAAGATCGCTGTGTGGACGAGG
GAGGCGGAAAACAGGCGGGCGTGCTGCACGTTGGGCGTGATACAAAGAGCGCCTGGGC
CTCTCCCCAAAGACCATCATTGGGTACCAGGCCCATGCAGACACAGCCACCAAGAGCAAC
TCCCTAGCCAAGAACAAGTTTGTGGTGTGA

Gene 263. >ENST00000310112 cDNA sequence

CGTGTAAGGCGGGTCTGGATATTGCGCGCGAACCAGCACTCCGGTTTCGACGGGGCTG
CAGTTTGCAGGGCCCGGATAACCGAGGCAGTGGCCCCCTCCGCGTCCCAGGTTTCAAGG
ACGCTAGGACTCTCCGCGGCCCTGAGGCTTCGCACTGGGGAGTGGGGCCGCCAGGATGGA
CGTGTTTCATGAAGGGCCTGTCCATGGCCAAGGAGGGCGTTGTGGCAGCCGCGGAGAAAAC
CAAGCAGGGGGTCAACGAGGCGGCGGAGAAGACCAAGGAGGGCGTCTCTACGTCGGAAG
CAAGACCCGAGAAGGTGTGGTACAAGGTGTGGCTTCAGTGGCTGAAAAACCAAGGAACA
GGCCTCACATCTGGGAGGAGCTGTGTTCTCTGGGGCAGGGAACATCGCAGCAGCCACAGG
ACTGGTGAAGAGGGAGGAATTCCCTACTGATCTGAAGCCAGAGGAAGTGGCCAGGAAGC
TGCTGAAGAACCACTGATTGAGCCCTGATGGAGCCAGAAGGGGAGAGTTATGAGGACCC
ACCCAGGAGGAATATCAGGAGTATGAGCCAGAGGCGTAGGGGCCAGGAGAGCCCCCAC
CAGCAGCACAATTCTGTCCCTGTCCCTGCCCCGCCCCCAGAGCCAGGGCTGTCTCTAGA
CTCCTTCTCCCCAATCACGAGATCTTCTTCCGCTCTGAGGCAACCCCTCGGAGCCTGT
GTTAGTGTCTGTCCATCTGTCTGTCTACCCGCCCCGCGTCCAACCCCGGGGCATGGACAG
GGCCAGGGTTGCGGTGCGGGCTGGGAGCCTCGCCCCCTCAGTGTTGCCTCCTCCCATCCA
GCGTCTGCGCGGATGTAGCATGTTCTATGTGTTTTTAAACGAAGATCCGAGCGACGGCTC
CTCCCCGATCCCCGACAGTGGCTCTCAAGCGGCCCCCGGGCAGCCCCAGAGCACCCCGC
CCGACTCCCATTAACCTCGAGAACCTTTTTTTTTTTTAAACAAAACAGGAGCCAGGCTGT
GCCATGTCCCCCGCCCCCATCCAGCCGGCCCGGTCCGAACGCGGGCGTCGTGTGTTGT
GATTGTGGCATGGAGAGTCCCCATCCCCCATGTGAGCGTGTCCCGGGCGGGTGGGCCC
GGCCGCCCCGAGAGTCCATGAATAAAGCTAATCTGTCTGT

Gene 264. >ENST00000303991 cDNA sequence

ACGGCGGCGCCGAGTCTGCGGGTCTCCCGCCAGCCCGGCGGAGGCAGCCGAGGCCGCT
CGGGCGGCGGCGGCGGCGGCGGCGGAGCCGGAGCGCATCTCGCCAGGAGCCGGAGCAG
CGGCACTGCCTGAACCAGACAGCAGCCTTGGGTGCAGGCGTGGTCATGAGGGCAGATGGA
CACTGCTGAAGACCCGGCCTGGCTCCAGCTGCTTCAAAGGATTCCAGCCCCCAGGACC
CCGACCCACAGCCTTCTTCTGCCACAGGATGGGAGCCTGGGGGCTGGCAGCTCGGCTAT
GAGGGATTACTGCCCCCTCCAGCAAAGGCAAGCCCTGCAACCCCCAGGCACACCCCTGA
CCAAAGCCAGGCATGGAGTCTAGACACAGAAGCCCCAGTGGGGCTGGGAAGGGGCCTC

FIGURE 1 (CONT'D)

CTGCTCTGACGGCCCCAGAGGGAGCCTGGCCTGCCCCCTCCCCAACCTGCTTCTCTCCCCA
GGAGTCACCCTCCAAGGAGACATTGGAGGCACATGGAGCCTCCATCTCAGGGACACCAGA
AGCCACCACGTCTGGGAAGCCAGAGCCTGTGTCTCCGTGAAAACTGAGCCCAAATCCTC
AGATGACAGAAATCCCATGTTCTTAGAGAAGATGGATTTCAGTCTCAAAGCAGGCCGA
TTCCACTTTCATAGGAAAGGAGGATCCTGGGTCTCACGGAAGGCAGATCCCATGTTTAC
AGGAAAGGCAGAGCCTGAAATCTTGGGAAAGGGGGATCCTGTGGCTCTGGAAGGATGGA
TCCCATGACTGTAAGAAAGGAAGATCTTGGATCCCTGGGAAAAGTAGATCCTTTGTGCTC
CAGCAAGACGTATACAGTGTCAACGAGGAAGGAGGATCCTGGGTCTTTGAGAAAGGTGGA
TCCTGTGTCTCTCAGACAAAGTGGACCCCTGTATTCCCAAGAAAGGAGGAGCCAGGTATTCT
AGGAAAAGAGCATCCTGTGTCTCTCAGAAAAGGTGCTCCTACATCTGCAGAAAAGGTAGA
TCTTGTATTGTGCGGAAAGAGAGATCCTGGGCCCTCGGGAAAGGCAGATCCCATGCCCTT
GGAAAGCATGGATTCTGCGTCCACAGGAAAGACAGAGCCGGGGCTCCTGGGCAAGCTGAT
TCCAGGCTCATCAGGCAAGAATGGGCCTGTATCTCTGGGACCGGGCTCCTGGGTCTT
GGGAAGGCTGGATCCCATGCTTGGGGATGGCAGATCCCGCATCTGTGGGAAATGTAGA
AACTGTGCCTGCCACAAAAGAGGACTCCCGGTTCTGGGAAAGATGGACCCCTGCCTCTC
AGGAGAGGGGCGTCTGTGTCTTGGCCACACGGATACTACGGCTTCAGCAAAGACAGATCT
CACATCTTTGAAAAATGTGGATCCCATGTCTTCAGGCAAGGTGGATCCAGTTTCTCTGGG
AAAGATGGACCCCATGTGCTCAGGAAAGCCAGAGCTCTTGTCTCTGGAACAGGCAGAGCG
TGTGTCTGTGGGAAAGGCAGGAACTGTATCCCCAGGAAAAGAGGACCCGGTGTCTCCAG
AAGGGAGGACCCCATATCTGCTGGAAGTAGAAAGACATCATCTGAAAAAGTGAATCCTGA
GTCTTCAGGAAAGACAAACCCTGTGTCTTCAGGTCCAGGCGATCCAGGTCTTGGGGAC
AGCAGGTCCCCCATCTGCAGTAAAGGCTGAGCCAGCGACGGGGGGAAAAGGAGATCCCCT
GTCTCTCGGAGAAGGCAGGTCTGGTGGCCTCTGGAAAGGCGGCTCCACAGCCTCAGGGAA
GGCCGAGCCCCTCGCGGTGGGCAAGGAGGACCCCTGTGAGCAAGGGAAAGGCAGACGCTGG
CCCCTCTGGACAAGGGGACTCTGTGTCTATAGGTAAAGTGGTCTCAACTCCAGGAAAAAC
AGTCCCCTGTCCTCGGGGAAGGTGGATCCCGTGTCCCTGGGAAAAGCAGAAGCTATCCC
AGAGGGAAAAGTGGGTTCTCTGCCTCTAGAGAAGGGGAGTCTGTTAACACCACAAAGGC
GGATCCCAGGGCCTCGGGGAAAGCACAGCCGAGTCTGGTGGCAAAGCAGAAACAAAGCT
CCCTGGGCAAGAGGGCGCTGCAGCACCAGGGGAAGCAGGGGCTGTGTGTTTAAAAAGGA
GACACCACAGGCCTCAGAGAAGGTGGATCCTGGATCCTGCAGAAAAGCAGAGCCCCTTGC
CTCAGGGAAGGGAGAGCCTGTGTCCCTGGGGAAAGCCGACTCTGCACCTTCAGAAAAAC
GGAGTCCCCATCCTTGGGGAAGGTGGTCCCCCTGAGTCTGGAGAAGACCAAGCCGTCTC
CTCCTCAGGCAGTTAGACCGCAAAGCCCTCGGCTCAGCCCGGTCTCCCGAGGGTGCCAG
GGGCAGTGAAGGCCGCGTGGAGCCGAAGGCCGAGCCCGTGTCCAGCACCGAGGCCTCCAG
TCTCGGCCAGAAAGACCTGGAAGCCGCTGGGGCCGAGAGAAGCCCCTGCCCAGAGGCCGC
AGCGCCCCCGCCGGGGCCGCGGACTCGCGACAACCTTACCAAGGCGCGCTCGTGGGAGGC
GAGCGCCCCCGCCGCGCGCGCGAGGACGCGGGCACTCAGGCGGGCGCGCAGGCCTGCGT
CTCAGTGGCCGTGAGCCCCATGTCTCCGAGGACGGCGCTGGGGGCTCGGCCTTCAGCTT
CCAGGCGGCGCGCGCGCGCCAGCCCGCCCTCGCGCCGAGATGCGGGCCTGCAGGTGTC
GCTGGGCGCGCGGAGACGCGCTCCGTGGCCACTGGGCCCATGACACCTCAAGCCGCGCG
GCCGCCCGCCTTCCCCGAAGTGCGGGTGCGGCCCGGCTCAGCGCTGGCGGGCCGCTGTAGC
GCCCCCGGAGCCGGCTGAGCCCGTGCAGAGCTGAGCTGGGACGAGAAGGGCATGACGTG
GGAGGTATACGGCGCCGCCATGGAGGTGGAGGTGCTGGGCATGGCCATCCAGAAGCATCT
GGAGCGACAGATCGAGGAGCACGGCCGCCAAGGGGCGCCCGCGCCCGCCCGCCCGCCG
TGCCGGCCCCGGCCGTTTCGGGCTCGGTGCGCACCGCGCCCCCAGATGGCGCCGCCAAGCG
TCCGCCCGGCCTGTTCCGCGCGCTGCTGCAGAGTGTGCGCCGGCCGCGGTGCTGCTCGCG
GGCGGGACCCACGGCCGAGTGATCTGCCCCCATTTTGTACGCCCGAGTTTCCGACCTTCT
CAGGCTCCCTTCTTGATCACAGGCCCCCTAGAAGGGGTCCCCTCTGCGTGCCACAGGCCTC
CGAGGGGTTGTGCAGCCTCTAGGGCTGTTGCGTCCCCGTCTTTCAGCCCCCTCCCATCAC
AAATACAGAAGAACCCTTCTACCAAGCTCCCTCGTGGCCACGAGGCCACGAACCCGGCC
AGCCCTGACGCCCCACTGTCCCTCACAGCCCTCAGCTCTACTCCGGTCACTGCGGCG
ACCACGGGGGCTGCTCAGCACCTCACCTCCCACCCCCTGAGAGCTGGGGCAGGCTCCT
GAGATGTCTAGACTGGTGCCTTGTGGTCTCCGGTGGGGCCAGATCCCCAGAACAGGGAGA
GACTGCATACAAGTCTGAGTGGCAGAAGCTTCAAGTGGGTGAGGATCGGTGTGTGAGACC

FIGURE 1 (CONT'D)

CGCGAGTGGGCACGTCTCTGAATGTGAGGTCTCGGGCAGCACGTGAGGTAGAACGAGTGT
GAGCGTCTCCACGCAGTGGCTGGCCCCGTGGCCGGGGCGTCTCTTGATGCTGTTGGTGG
TCCTTCCCAGTTCTTATCTCCACCCGCTGGTTCCAGCCCCATCCCCTCTCCCACTGA
GTCACAGGTTTGGAGATCCACAGAGAGGCCAAAGACAGCTACAGGAAGTACCCTGGGGGCT
CAGCTGAGAGAGAGTACAGAAAAGGCCAGAGGGTCTCAGGAAGGTCTGGAGGTACAGCT
GGGCTACAGAAAGCTCTTGGGCCCTGGCATCCTGGGTGACCGGTGTTCTTGGGTATTGGG
GACAGGACAGAGAGCTCATTCTATAACCACAGTTGTCTTTAAAGGCCACCCTCTCCAGC
CCCTTGTCCCCCTGTGCTGTGAGCCCAAGTCCCTTGTGACCACTCAGTGTCCCGTCCCC
ACCCCTCCAGCCGAGTTTTTTGGCTACAACTGTACAGTATACATTGGTAATAAAATAT
TTCCCC

Gene 265. >ENST00000335532 cDNA sequence

GGGCAGATGGACACTGCTGAAGACCCGGCCTGGCTCCAGCTGCTTCAAAGGATTCCAGC
CCCCCAGGACCCCGACCCACAGCCTTCTTCTGCCACAGGATGGGAGCCTGGGGGCTGGC
AGCTCGGCTATGAGGGATTACTGCCCCTCCAGCAAAAGGCAAGCCCTGCACCCCCCAGG
CACACCCCTGACCAAGCCCAGGCATGGAGTCTAGACACAGAAGCCCAGTGGGGCTGGG
GAAGGGGCTCCTGCTCTGACGGCCCCAGAGGGAGCCTGGCCTGCCCCTCCCCAACCTGC
TTCTCTCCCCAGGAGTCACCTCCAAGGAGACATTGGAGGCACATGGAGCCTCCATCTCA
GGGACACACAGAAGCCACACGTCTGGGAAGCCAGAGCCTGTGTCTCCGTGAAAAGTGG
CCCAAATCCTCAGATGACAGAAATCCCATGTTCTTAGAGAAGATGGATTTCAAGTCCTCA
AAGCAGGCCGATTCCACTTCCATAGGAAAGGAGGATCCTGGGTCTCACGGAAGGCAGAT
CCCATGTTTACAGGAAAGGCAGAGCCTGAAATCTTGGGAAAGGGGGATCCTGTGGCTCCT
GGAAGGATGGATCCCATGACTGTAAGAAAGGAAGATCTTGGATCCCTGGGAAAAGTAGAT
CCTTTGTGCTCCAGCAAGACGTATACAGTGTACCGAGGAAGGAGGATCCTGGGTCTTTG
AGAAAGGTGGATCCTGTGTCTCAGACAAAGTGGACCCTGTATTCCCAAGAAAGGAGGAG
CCCAGGTATTAGGAAAAGAGCATCCTGTGTCTCAGAAAAGGTGCTCTACATCTGCA
GAAAAGGTAGATCTTGTATTGTGGGAAAGAGAGATCCTGGGCCCTCGGGAAAGGCAGAT
CCCATGCCCTTGGAAAGCATGGATTCTGCGTCCACAGGAAAGACAGAGCCGGGGCTCTG
GGCAAGCTGATTCCAGGCTCATCAGGCAAGAATGGGCCTGTATCCTCTGGGACCGGGGCT
CCTGGGTCTTGGGAAGGCTGGATCCACATGCTTGGGGATGGCAGATCCCGCATCTGTG
GGAAATGTAGAAAAGTGTGCTGCCACAAAGAGGACTCCCGGTTCTGGGAAAGATGGAC
CCTGCCTCCTCAGGAGAGGGGCGTCTGTGTCTGGCCACACGGATACTACGGCTTCAGCA
AAGACAGATCTCACATCTTTGAAAATGTGGATCCCATGTCTTCAGGCAAGGTGGATCCA
GTTTCTCTGGGAAAGATGGACCCCATGTGCTCAGGAAAGCCAGAGCTCTTGTCTCCTGGA
CAGGCAGAGCGTGTGTCTGTGGGAAAGGCAGGAACTGTATCCCAGGAAAAGAGGACCCG
GTGTCTCCAGAAGGGAGGACCCCATATCTGCTGGAAGTAGAAAGACATCATCTGAAAAA
GTGAATCCTGAGTCTTCAGGAAAGACAAACCTGTGTCTTCAGGTCCAGGCGATCCCAGG
TCCTTGGGGACAGCAGGTCCCCCATCTGCAGTAAAGGCTGAGCCAGCGACGGGGGGAAAA
GGAGATCCCCTGTCTCGGAGAAGGCAGGTCTGGTGGCCTCTGGAAAGGCGGCTCCCA
GCCTCAGGGAAGGCCGAGCCCCTCGCGGTGGGCAAGGAGGACCCTGTGAGCAAGGGAAAG
GCAGACGCTGGCCCCCTCTGGACAAGGGGACTCTGTGTCTATAGGTAAAGTGGTCTCAACT
CCAGGAAAAACAGTCCCGGTGCCCTCGGGGAAGGTGGATCCCGTGTCCCTGGGAAAAGCA
GAAGCTATCCAGAGGGAAAAGTGGGTTCTCTGCCTCTAGAGAAGGGGAGTCTGTGTTACC
ACCACAAAGGCGGATCCAGGGCCTCGGGGAAAGCACAGCCGAGTCTGGTGGCAAAGCA
GAAACAAAGCTCCCTGGGCAAGAGGGCGCTGCAGCACCAGGGGAAGCAGGGGCTGTGTGT
TTGAAAAGGAGACACACAGGCCTCAGAGAAGGTGGATCCTGGATCCTGCAGAAAAGCA
GAGCCCCTTGCTCAGGGAAGGGAGAGCCTGTGTCCCTGGGGAAAGCCGACTCTGCACCT
TCCAGAAAACCGGAGTCCCCTCTTGGGGAAGGTGGTCCCCCTGAGTCTGGAGAAGACC
AAGCCGTCTCTCTCCTCAGGCAGTTAGACCGCAAAGCCCTCGGCTCAGCCCGGTCTCCC
GAGGGTGCCAGGGGCAGTGAAGGCCGCTGGAGCCGAAGGCCGAGCCCGTATGGCGCCGC
CAAGCGTCCGCCCCGGCCTGTTCCGCGCGCTGTGTCAGAGTGTGCGCCGGCCGCGGTGCTG
CTCGCGGGCGGGACCCACGGCCGAGTGATCTGCCCCATTGTTGTACGCCCGAGTTTCCGA
CCTTCTCAGGCTCCCTTCTTGATCACAGGCCCTAG

Gene 266. >ENST00000261944 cDNA sequence

GCCTCCGTGGCGAAGGGGACACAGGTCCCTGCGGATGTGATGGCCCAGCTATGGCTGTCC

FIGURE 1 (CONT'D)

TGCTTCCTCCTTCCTGCCCTCGTGGTGTCTGTGGCAGCCAACGTGGCCCCGAAGTTCTTA
 GCCAACATGACGTGAGTGATCCTGCCTGAGGACCTGCCTGTGGGTGCCAGGCCTTCTGG
 TTGGTAGCGGAAGACCAGGACAATGACCCTCTGACCTATGGGATGAGCGGCCCAATGCC
 TACTTCTTCGCTGTCACTCCGAAACTGGGGAAGTGAAGCTGGCCAGCGCTCTGGACTAC
 GAGACACTCTACACATTCAAAGTCAACATCTCCGTGAGCGACCCCTACATCCAGGTGCAG
 AGGGAGATGCTGGTGATTGTGGAAGATAGAAACGACAACGCACCCGTTTTCCAGAACACC
 GCTTTCTCCACCAGCATCAACGAGACCCTGCCCGTGGGCAGTGTGGTGTTCTCCGTGCTG
 GCCGTGGATAAAGACATGGGGTCTGCAGGCATGGTGTGTACTCCATAGAGAAGGTATC
 CCTAGCACTGGGGACAGCGAGCATCTCTCCGGATCCTGGCCAATGGCTCCATAGTCTC
 AATGGCAGCCTCAGCTACAACAACAAGAGCGCTTTCTACCAGCTGGAGCTGAAGGCCTGT
 GACTTGGGCGGCATGTACCAACAACCTTCAACATCCAGTGCTCCCTGCCTGTCTTCTG
 TCCATCTCCGTGGTGGACCAGCCTGACCTTGACCCCGAGTTTGTCAAGGAGTTTTACTCG
 GCCTCTGTGGCTGAGGATGCAGCAAGGGAACCTCGGTGCTGACGGTGGAGGCTGTGGAT
 GCGGACAAAGGCATCAATGACCTGTGATCTACAGCATCTCCTACTCCACGCGGCCCGGC
 TGGTTTGCATCGGGGAGATGGGGTGTGATCAGGGTCAACGGCTCCCTGGACCGTGAGCAG
 CTGCTGGAGGCGGATGAGGAGGTGCAGCTGCAGGTACGGCCACCGAGACACACCTCAAC
 ATCTACGGGCAGGAGGCCAAGGTGAGCATCTGGGTGACAGTGAGAGTGATGGACGTCAAT
 GACCACAAACCTGAGTTTTACAACCTGCAGCCTCCAGCCTGCACCTTCACCCCGAAGAG
 GCCCAAGTGAACCTTCACTGGCTACGTGGACGAGCATGCCTCCCCCGCATCCCCATCGAT
 GACCTCACCATGGTGGTCTACGACCCGGACAAGGCAGGCGGCAGCAATGGCACCTTCTG
 TTGTGCTGGGGGGCCCCGATGCAGAAGCCTTCAGCGTCTCCCGGAGCGGGCAGTGGGC
 TCAGCCTCCGTTCAAGTGCTGGTGAGAGTATCCGCGCTGGTGGACTACGAGAGGCAGACG
 GCGATGGCGGTGCAGGTTGTGGCCACAGACTCCGTGAGCCAGAATCTCCGTGCGCATG
 GTGACCATCCACCTTAGAGACATTAATGACCACAGGCCACGTTTCCCAGAGCTTGTAC
 GTCTCACGGTGCCAGAGCACAGCGCCACCGGCTCTGTGGTCACCGACAGCATCCACGCC
 ACGGACCCAGACACGGGCGCGTGGGGCCAAATTACCTACAGCCTGCTCCAGGAAATGGG
 GCAGACCTCTTCCAAGTGGATCCCGTCTCAGGGACGGTGACGGTGAGGAACGGTGAGCTG
 CTGGACCGGGAGAGCCAGGCCGTGTACTACCTGACGCTGCAGGCCACAGACGGCGGGAAC
 CTGTCTCTCCACCACACTGCAGATCCACCTGCTGGACATCAACGACAATGCACCCGTG
 GTTAGCGGCTCCTACAACATCTTCGTCCAGGAGGAGGAGGGCAATGTCTCCGTGACCATC
 CAGGCCCACGACAATGATGAGCCGGGCACCAACAACAGCCGTCTGCTCTTCAACCTGCTG
 CCTGGCCCCCTACAGCCACAACCTTCTCCTTGGACCCCTGACACAGGGCTCCTCAGAAACCTG
 GGGCCCCCTGGACAGAGAGGCCATCGACCCCGCCCTGGAGGGCCGATTGTGCTGACAGTG
 CTTGTGTCTGACTGCGGCGAGCCTGTCTCGGCACCAAAGTCAATGTCAACATCACTGTG
 GAGGACATCAATGATAACCTGCCATCTTCAATCAGTCCAGCTACAACCTTACGGTGAAG
 GAGGAGGATCCAGGAGTGCTAGTGGGCGTGGTGAAGGCCTGGGACGCGGACCAGACGGAA
 GCCAACAACCGCATCAGCTTCAGCCTGTCCGGGAGTGGTGCCAACTACTTTCATGATCCGA
 GGCTTGGTGCTGGGGGCTGGGTGGGCTGAGGGCTACCTCCGGCTGCCCCGGACGTGAGC
 CTGGATTACGAGACACAGCCCGTCTTCAACTTGACAGTGAGTGCTGAGAACCAGACCCC
 CAGGGGGGTGAGACCATAGTAGACGTCTGCGTGAATGTGAAAGACGTGAACGACAATCCC
 CCCACCCTGGATGTAGCCTCACTCCGGGGCATCCGTGTGGCTGAGAATGGCTCACAGCAC
 GGCCAGGTGGCTGTGGTGGTTGCCTCGGATGTGGACACCAGTGCCCAGCTGGAGATACAG
 CTTGTGAACATTCTCTGCACCAAGGCCGGGGTGCATGTGGGCAGCCTATGCTGGGGCTGG
 TTCTCAGTGGCGGCCAACGGCTCTGTGTACATCAACCAGAGCAAAGCCATCGACTACGAG
 GCCTGTGACCTGGTCACGCTGGTGTGCGGGCCTGTGACCTAGCCACGGACCCCGGCTTC
 CAGGCCTACAGCAACAATGGAAGCCTCCTCATTACCATTGAGGACGTGAATGACAATGCA
 CCCTATTTTCTGCCTGAGAATAAGACTTTTGTGATCATCCCTGAACTCGTGCTGCCAAC
 CGGGAGGTGGCTTCTGTCCGGGCCAGAGACGATGATTACGGGAACAATGGCGTCATCCTG
 TTCTCCATCCTCCGAGTAGACTTCATCTCTAAGGACGGGGCCACCATCCCTTTCCAGGGT
 GTCTTCTCGATCTTCACTCCTCCGAGGCCGACGTGTTCTGCTGGGAGCATTACAGCCGGTG
 ACCAGCCTCGACTCCACTCTCCAAGGCACCTACCAAGTGACAGTCCAGGCCAGGGACAGA
 CCTTCTTGGGTCTTTTCTGGAAGCCACCACCCTGAATCTCTTCAACCGTGGACCAG
 AGTTACCGCTCGCGGCTGCAGTTCTCCACACCGAAGGAGGAGTGGGCGCCAACAGACAG
 GCGATTAATGCGGCTCTTACCCAGGCAACCAGGACTACAGTATACATTGTGGACATTACG

FIGURE 1 (CONT'D)

GACATAGATTCTGCAGCTCGGGCCCGACCTCACTCCTACCTCGATGCCTACTTTGTCTTC
 CCCAATGGGTGAGCCCTGACCCTTGATGAGCTGAGTGTGATGATCCGGAATGATCAGGAC
 TCGCTGACGCAGCTGCTGCAGCTGGGGCTGGTGGTGTGGGCTCCAGGAGAGCCAGGAG
 TCAGACCTGTGAAACAGCTCATCAGTGTATCATAGGATTGGGAGTGGCTTTGCTGCTG
 GTCCTTGTGATCATGACCATGGCCTTCGTGTGTGTGCGGAAGAGCTACAACCGGAAGCTT
 CAAGCTATGAAGGCTGCCAAGGAGGCCAGGAAGACAGCAGCAGGGGTGATGCCCTCAGCC
 CCTGCCATCCAGGGACTAACATGTACAACACTGAGCGAGCCAACCCCATGCTGAACCTC
 CCCAACAAAGACCTGGGCTTGGAGTACCTCTCTCCCTCCAATGACCTGGACTCTGTGAGC
 GTCAACTCCCTGGACGACAACCTCTGTGGATGTGGACAAGAAGTCAAGGCA
 AGATGGGGGATGAATTGGCCACCACACACACCAGAGCCAGATCAGAGCCCCTGAGC
 GTGGTCTCTGTTAGGACGGCAGGCAGGCGCAAGTGGACAGCTGGAGGGGCCATCCTACACC
 AACGCTGGCCTGGACACCACGGACCTGTGA

Gene 267. >ENST0000251582 cDNA sequence

ATGGATCCGCCGGCGGGAGCCGCTCGCCGCTGCTCTGCCCCGCGCTGCTGCTGCTGCTG
 CTGCTGCTGCCGCCGCCGCTCCTGCCGCCGCCGCCGCCGCCGCGAACGCCAGGCTCGCC
 GCCGCCGCCGACCCCCAGGCGGGCCCCCTGGGGCACGGAGCGGAGCGCATCCTGGCGGTG
 CCCGTGCGCACTGACGCCCAGGGCCGCTTGGTGTCCACGTGGTGTGCGCAGCTACGTCC
 AGAGCAGGGGTACGAGCCCGAGGGCCGCCCGGTCCGGACCCCGAGCTTCCCCGAGGC
 AACGAGGAGGAGCCTGGCAGTCACCTCTTCTACAATGTACGGTCTTTGGCCGAGACCTG
 CACCTGCGGCTGCGGCCAACGCCCGCCTCGTGGCGCCCGGGGCCACTATGGAGTGGCAG
 GGCAGAGAAGGGCACCACCCGCTGGAGCCCCCTGCTCGGGAGCTGTCTCTACGTGCGAGAC
 GTGGCCGGCCTAGCCGAAGCCTCCTCTGTGGCGCTCAGCAACTGCGATGGGCTGGCTGGT
 CTGATCCGGATGGAGGAGGAGGAGTTCTTCATCGAACCTTGGAGAAGGGGCTGGCGGCG
 CAGGAGGCTGAGCAAGGCCGTGTGCATGTGGTGTATCGCCGGCCACCCACGTCCCCTCCT
 CTCGGGGGGGCCACAGGCCCTGGACACAGGGGCCTCCCTGGACAGCCTGGACAGCCTCAGC
 CGCGCCCTGGGCGTCTAGAGGAGCACGCCAACAGCTCGAGGCGGAGGGCACGCAGGCAT
 GCTGCGGACGATGACTACAACATCGAGGTCTGCTGGGCGTGGATGACTCTGTGGTGCAG
 TTCCACGGGAAGGAGCACGTACAGAAGTACCTGCTGACACTCATGAACATTGTCAATGAA
 ATCTACCATGACGAGTCTTGGGTGCCACATCAACGTGGTCTGGTGCAGGATCATCCTC
 CTGAGCTATGGAAAGTCCATGAGCCTCATCGAGATCGGGAACCCCTCTCAGAGCCTGGAG
 AATGTCTGCCGCTGGGCCTACCTCCAGCAGAAGCCAGACACGGGCCACGATGAATACCAC
 GATCACGCCATCTTCTCACACGGCAGGACTTTGGGCCTTCCGGCATGCAAGGCTATGCT
 CCTGTACCCGGCATGTGCCATCCGGTCCGCAGCTGCACCCTGAACCATGAGGACGGCTTC
 TCCTCAGCGTTTGTGGTGGCCCATGAGACTGGCCACGTGCTGGGCATGGAGCACGACGGG
 CAGGGCAACCGCTGTGGCGACGAGGTGCGGCTGGGCAGCATCATGGCGCCCCTGGTGCAG
 GCCGCTTCCACCGCTTCCACTGGTCCCCTGTCAGCCAGCAGGAGCTGAGCCGCTACCTG
 CACTCCTATGACTGCCTGCTGGATGACCCCTTCGCCCACGACTGGCCGGCGCTGCCCCAG
 CTCCCGGACTGCACTACTCCATGAACGAGCAATGCCGCTTTGACTTCGGCCTGGGCTAC
 ATGATGTGCACGGCGTTCCGGACCTTTGACCCCTGCAAGCAGCTGTGGTGCAGCCATCCT
 GACAACCCCTACTTTTGAAGACCAAGAAGGGGCCCCCTTGGACGGGACTATGTGTGCA
 CCTGGCAAGCATTGTTTTAAAGGACACTGCATCTGGCTGACACCTGACATCCTCAAACGG
 GACGGCAGCTGGGGCGCTTGGAGTCCGTTTGGCTCCTGCTCACGTACCTGTGGCACGGGC
 GTGAAGTTCAGGACCCGCCAGTGTGACAACCCACACCCGGCCAACGGGGGCCGCACCTGC
 TCGGGCCTTGCCCTACGACTTCCAGCTCTGCAGCCGCCAGGACTGCCCCGACTCCCTGGCT
 GACTTCCGCGAGGAGCAGTGCAGCCAGTGGGACCTGTACTTCGAGCACGGCGACGCCAG
 CACCACTGGCTGCCCCACGAGCACCGGGATGCCAAGGAGAGATGCCACCTGTACTGCGAG
 TCCAGGGAGACCGGGGAGGTGGTGTCCATGAAGCGCATGGTGCATGACGGGACGCGCTGC
 TCCTACAAGGACGCCTTACGCTCTGTGTGCGCGGGGACTGCAGGAAGGTGGGCTGTGAC
 GGTGTGATCGGCTCCAGCAAGCAGGAAGACAAGTGTGGCGTGTGCGGAGGGGACAAAGC
 CACTGCAAAGTGGTCAAGGGCACGTTACACGGTCACCCAAGAAGCATGGTTACATCAAG
 ATGTTTGAGATCCCTGCAGGAGCCAGACACCTGCTCATTAGGAGGTAGACGCCACCAGC
 CACCATCTGGCCGTCAAGAACCTGGAGACAGGCAAGTTCATCTTAAATGAAGAGAATGAC
 GTGGATGCCAGTTCAAAACCTTATTGCCATGGGCGTGGAGTGGGAGTACAGAGACGAG
 GACGGCCGGGAGACGCTGCAGACCATGGGCCCTCCACGGCACCATACCGTTCTGGTC

FIGURE 1 (CONT'D)

ATCCCGGTGGGAGACACCCGGGTCTCACTGACGTACAAATACATGATCCATGAGGACTCA
CTGAATGTGCGACGACAACAACGTCTTGGGAAGAGGACTCTGTGGTCTACGAGTGGGCCCTG
AAGAAGTGGTCTCCGTGCTCCAAGCCCTGTGGCGGAGGGTCCAGTTACCAAGTATGGC
TGCCGCCGGAGGCTGGACCACAAGATGGTACACCGTGGCTTCTGTGCCGCCCTCTCGAAG
CCCAAAGCCATCCGAGAGCGTGCAACCACAGGAATGCTCCAGCCAGTGTGGGTACA
GGCGAATGGGAGCCATGTAGCCAGACCTGTGGGCGGACAGGCATGCAGGTGCGCTCCGTG
CGCTGCATTAGCCGCTACACGACAACACCACCCGCTCCGTGCACGCCAAGCACTGCAAT
GACGCCCGGCCCGAGAGCCGCGGGCCCTGCAGCCGCGAGCTCTGCCCTGGTCTTGGCGA
GCCGGGCCCTGGTCCAGTGCTCAGTAACCTGTGGCAACGGCACCAGGAGCGGCCAGTG
CTCTGCCGCAACGCGGACGACAGCTTCGGCATCTGCCAGGAGGAGCGTCTGAGACAGCG
AGGACCTGCAGGCTTGGCCCCCTGTCCCGAAACATCTCAGATCCCTCCAAGAAGAGCTAC
GTAGTTAGTGGCTGTCCCGCCCGGACCCCGACTCGCCCATCCGGAAGATCTCGTCAAAG
GGCCACTGCCAAGGCGACAAGTCAATATTCTGTAGGATGGAAGTCTTGTCCGCTATTGC
TCCATCCCAGGCTACAACAAGCTGTGCTGCAAGTCCTGTAACCTGTACAACAACCTCACC
AACGTGGAGGGCAGGATAGAGCCACCGCCTGGGAAGCAACGACATTGACGTGTTTATG
CCTACCCTCCAGTGCCCACTGTAGCCATGGAGGTGCGGCCATCAACAAGCACCCCCTG
GAGGTCCCTCTCAATGCCTCCAGCACCAATGCCACAGAGGATCACCAGAAACCAATGCC
GTAGATGAACCTTACAAAATCATGGCCTGGAAGATGAAGTCAGCCACCCAACCTAATC
CCTCGACGACCGAGCCCTATGAAAAGACCAGAAACCAAGAATCCAAGAGCTCATTGAT
GAGATGCGGAAGAAAGAGATGCTCGGAAAGTTCTAA

Gene 268. >ENST00000274609 cDNA sequence

ATGGATCCGCCGGCGGGAGCCGCTCGCCGCTGCTCTGCCCCGCGCTGCTGCTGCTGCTG
CTGCTGCTGCCGCCGCCGCTCCTGCCGCCGCCGCCGCCGCCGCCGGAACGCCAGGCTCGCC
GCCGCCGCCGACCCCCAGGCGGGCCCTGGGGCACGGAGCGGAGCGCATCCTGGCGGTG
CCCGTGCCTACTGACGCCAGGGCCGCTTGGTGTCCCACTGGTGTGCGGAGCTACGTCC
AGAGCAGGGGTACGAGCCCGCAGGGCCGCCCGGTCCGGACCCCGAGCTTCCCCGGAGGC
AACGAGGAGGAGCCTGGCAGTCACCTCTTCTACAATGTACGGTCTTTGGCCGAGACCTG
CACCTGCGGCTGCGGCCCAACGCCCGCCTCGTGGCGCCCGGGCCACTATGGAGTGGCAG
GGCGAGAAGGGCACCAACCGCGTGGAGCCCTGCTCGGGAGCTGTCTCTACGTGCGAGAC
GTGGCCGGCCTAGCCGAAGCCTCCTCTGTGGCGCTCAGCAACTGCGATGGGCTGGCTGGT
CTGATCCGGATGGAGGAGGAGGAGTTCTTCATCGAACCTTGGAGAAGGGGCTGGCGGGC
CAGGAGGCTGAGCAAGGCCGTGTGCATGTGGTGTATCGCCGGCCACCCACGTCCCTCCT
CTCGGGGGGCCACAGGCCCTGGACACAGGGCCCTCCCTGGACAGCCTGGACAGCCTCAGC
CGCGCCCTGGGCGTCTTAGAGGAGCACGCCAACAGCTCGAGGCGGAGGGCACGCAGGCAT
GCTGCGGACGATGACTACAACATCGAGGTCTGCTGGGCGTGGATGACTCTGTGGTGCAG
TTCCACGGGAAGGAGCACGTACAGAAGTACCTGCTGACACTCATGAACATTGTCAATGAA
ATCTACCATGACGAGTCTTGGGTGCCACATCAACGTGGTCTTGGTGCAGATCATCCTC
CTGAGCTATGGAAAGTCCATGAGCCTCATCGAGATCGGGAACCCCTCTCAGAGCCTGGAG
AATGTCTGCCGCTGGGCCTACCTCCAGCAGAAGCCAGACACGGGCCACGATGAATACCAC
GATCACGCCATCTTCTCACACGGCAGGACTTTGGGCCTTCCGGCATGCAAGGCTATGCT
CCTGTACCCGGCATGTGCCATCCGGTCCGCAGCTGCACCCTGAACCATGAGGACGGCTTC
TCCTCAGCGTTTGTGGTGGCCCATGAGACTGGCCACGTGCTGGGCATGGAGCACGACGGG
CAGGGCAACCGCTGTGGCGACGAGGTGCGGCTGGGCGAGCATCATGGCGCCCTGGTGCAG
GCCGCCCTTCCACCGCTTCCACTGGTCCCCTGTCAGCCAGCAGGAGCTGAGCCGCTACCTG
CACTCCTATGACTGCCTGCTGGATGACCCCTTCGCCCACGACTGGCCGGCGCTGCCCCAG
CTCCCGGACTGCACTACTCCATGAACGAGCAATGCCGCTTTGACTTCGGCCTGGGCTAC
ATGATGTGCACGGCGTTCCGGACCTTTGACCCCTGCAAGCAGCTGTGGTGCAGCCATCCT
GACAACCCCTACTTTTGCAAGACCAAGAAGGGGCCCCCTTGGACGGGACTATGTGTGCA
CCTGGCAAGTTAGGCGGGCGCGGTGGCTCATGCCTGTTATCCAGCACTTTGGGAGGC
CAAGGTAGGTGGATCGCCTGA

Gene 269. >ENST00000331699 cDNA sequence

ATGGGCCAGAATATTTCTCTTCTGTGTATAAAGGGGAGATTAGGCCTGGAACCTGGGC
ATGGCCGTGGATGCGTGGAATGAGGAAGGAAAGGCGGTCTGGGGGAGCAGCAAGCTGGTG
TGTAATAAGCCGATCCCTTGCCAGCCACACACTTCTGGAACAATGAGAACGGCAACAAG

FIGURE 1 (CONT'D)

TACAGGAAGGCGTATTTCTCAAATTCCCAGGTATCAGGGCTCATGGCGACTGCTGCAGC
ATCAACCCGAAGACCGGGGGCGTCATCATGCTCGGCTGGAGGCCGATCCTGCACTGAGG
GGCCCCCTGTGTGAATGTGTGCCCTCTCCTGTCTCCACAGTGGACTCCTTTGAGGAGGTG
GAGGACAGCCTGTATGTCCCCAGTATAACAAGTACGGGAAGAGAGGGTGATCGTCTTC
CTGAAGACAGCCTCTGGGCA CGCCTTCCAGCCTGACTTGGTGAAGAGGATCTGTGACGCC
ATCCGCGTGGGCTTGTCTGTGCGGCATGTGCCAGCCTCATCCTGGAAACCAAGGGCATC
GCGTACACGCTCAGTGGCAATAAAGTGAAGTTGCCGTCAAACAGATCATCGCTCGAAAA
GCCATGGAGCAACGAGGTGCTTTCTCGAACCCGAGGCCCTGCATCTGTACTGGGACATC
CCTGAGCTGAATGGCTTCTGA

Gene 270. >ENST00000303127 cDNA sequence

ATGGCGGCGGAAGGCTGGATTTGGCGTTGGGGCTGGGGCCGGCGGTGCCTGGGAAGGCCT
GGGCTTCTCGGCCCCGGCCCTGGCCCCACTACACCTCTCTTTCTTTTGTGTTGGGG
TCTGTGACTGCGGATATAACTGACGGCAACAGTGAACATCTCAAGCGGGAGCATTGCTC
ATTAAGCCCTACCAAGGGGTGCGTTCCAGCTCTATGCCCCCTCTGGGACTTCCAGGGCAGC
ACTATGCTCACGAGCCAGTACGTACGTCTGACCCCTGACGAGCGCAGCAAAGAGGGCTCT
ATCTGGAACACCAGCCGTGCTTCTCAAAGACTGGGAAATGCACGTCCACTTCAAAGTC
CACGGCACAGGGAAGAAGAACCTCCATGGAGACGGCATCGCCTTGTGGTACACCCGGGAC
CGCCTCGTGCCAGGGCCTGTGTTTGAAGCAAAGATAACTTCCAGGCTTAGCCATCTTC
CTGGACACCTACCCCAATGATGAGACCACTGAGCGCGTGTTCCCGTACATCTCGGTGATG
GTGAACAATGGCTCCCTGTCTTACGACCACAGCAAGGATGGGCGCTGGACCGAGCTGGCG
GGCTGCACGGCTGACTTCCGCAACCGCGATCACGACACCTTCTGGCTGTGCGCTACTCC
CGGGGCCGTCTGACGGTGATGACCGACCTGGAGGACAAGAACGAGTGAAGAACTGCATT
GACATCACGGGAGTGCGCCTGCCACCGGCTACTACTTCGGGGCCTCCGCCGGCACCGGC
GACCTGTCTGACAATCATGACATCATCTCCATGAAGCTGTTCCAGCTGATGGTGGAGCAC
ACGCCCCGACGAGGAGAGCATCGACTGGACCAAGATCGAGCCCAGCGTCAACTTCTCAAG
TCGCCCAAAGACAACGTGGACGACCCACGGGGAACCTCCGAGCGGGCCCTGACGGGG
TGGCGGGTGTTTCTGTCTGCTGTGCGCTCTCCTGGGCATCGTTGTCTGCGCCGTGGTG
GGGGCCGTGGTGTTCCAGAAGCGGCAGGAGCGGAACAAGCGCTTCTACTGAGTGGCGCCT
CCGGCGGGGCCTGTCCCTGGGCCCAGGAGCCAATGTGAACTTTTTTTTTTACCGGGATTA
TAAAAGAACAACAAGATGACCTTATTTCTTAACTGTTTCAAATAAATGATTAAAGTATTT
TCATACATTTTGTCTTCTGCCCAGCAGGGACAGGTGGCAGAGCCGAGGCTTAGGGTCTGG
CACCCCCCAGCTGGAGACGGAGGCTCTCCTGGGGCTGGTGTCTCAGGAGCAGGGGTCT
GTGTCTACAGATGGGCTGTGGCCCCTGCAGGCAGCTGTTGAACACTGGAGGGTCCCCCGG
ACCACACTGGGGTGGGCTCCTGAGGAC

Gene 271. >ENST00000303066 cDNA sequence

GGTAGTGAGCGGTGTTTTCAGGATGTGAGGGCCCGCAGGAGCCGAGTCAGGCTCTCTCCAC
TGCCTGCCCCGCCACCGTGCAAGCTCTGGCCGGCGCTGCCACAGTCCCCATGGTGGGCAG
CCCCCGCGGGGGACCCCTGATCGGCAGCGGCATGCCAGGGAAGCCCAAGCACTGGGC
GTCCCCAACGGGCGCATGGTTCTGGCTGTGTGATGAGAGCTGAGCAGCACGACGGGG
CCCCAGGGCCAGGGCGAGGGCCGCGGCAGCTCTCTCAGCATCCACAGCCTCCCCAGTGGT
CCCAGCAGCCCCCTTCCCAACCGAGGAGCAGCCTGTGGCCAGCTGGGCCCTGTCTTTCGAG
CGGCTGTTGCAGGACCCGCTGGGCCTGGCTTACTTCACTGAGTTCTGAAGAAGGAGTTC
AGCGCGGAAAACGTGACTTTCTGGAAGGCCTGCGAGCGCTTCCAGCAGATCCCGGCAGC
GATACCCAGCAGCTAGCTCAGGAGGCCCGCAAATCTACCAGGAGTTCTGTCCAGCCAG
GCGCTGAGCCAGTGAACATCGACCGTCAGGCCTGGCTTGGCGAGGAGGTGCTGGCCGAG
CCCCGGCCGGACATGTTTTCGGGCACAGCAGCTTCTCAGATCTTCAACTTGATGAAGTTTCGAC
AGCTATGCGCGCTTCGTCAAGTCCCCGCTGTACCGCGAGTGCTGCTAGCCGAAGCCGAG
GGACGCCCTCTGCGGGAACCTGGCTCCTCGCGCCTCGGCAGCCCTGACGCCACGAGGAAG
AAGCCGAAGCTGAAGCCCGGGAAGTCTGCGCGCTGGGTGTGGAGGAGTTGGGGCAGCTG
CCACCCGTTGAGGGTCTGGGGGCCGCCCTCTCCGCAAGTCCTTCCGCCGGGAGCTGGGC
GGGACTGCAAACGCCGCTTTCGCGCGAGAGTCTCAGGGCTCCCTCAACTCCTCCGCCAGC
CTGGACCTTGGCTTCTTAGCCTTCTGTGAGCAGCAAATCTGAGAGCCACCGGAAGAGCCTT
GGGAGCACGGAGGGTGAAAGTGAAAGCCGGCCAGGGAAGTACTGCTGTGTGTACCTGCCC
GATGGCACAGCCTCCTTGGCCCTGGCCAGACCTGGCCTCACCATCCGAGACATGCTGGCA

FIGURE 1 (CONT'D)

GGGATCTGTGAGAAACGAGGCCTCTCTCTACCTGACATCAAGGTCTACCTGGTGGGCAAT
 GAACAGAAGGCCCTGGTCCTGGATCAGGACTGCACCGTGTGGCGGATCAGGAAGTGC GG
 CTGGAAAACAGGATCACCTTCGAGCTGGAGCTGACGGCGCTGGAGCGCGTGGTACGAATC
 TCAGCCAAGCCCCACCAAGCGGCTGCAGGAGGCGCTGCAGCCCATTCTGGAGAAGCACGGC
 TTGAGCCCCTAGAGGTGGTGTGTCACCGGCCAGGCGAGAAACAGCCTCTGGATCTGGGG
 AAGCTAGTGAGCTCGGTGGCGGCCAGAGACTGGTTTTGGACACTCTTCAGGTGTGAAG
 ATCTCCAAAGCCCGTGACAAATCTCCCTGCCGCAGCCAGGGCTGCCACCTAGAACTCAG
 GATAAGGCCACCCATCCCCCTCCAGCGTCCCCAGTTCTCTGGTGAAGGTGCCAGTAGT
 GCCACTGGAAAGCGGCAGACCTGTGACATCGAAGGCCTGGTGGAGCTGCTGAACCGGGTG
 CAGAGCAGCGGGGCCACGACCAGAGGGGCCTTCTGAGGAAAGAGGACCTGGTACTTCCA
 GAATTTCTGCAGCTGCCCGCCCAAGGGGCCAGCTCCGAGCCCACCAAGACCAAATCAGC
 AGCCCAGCCCATCGGGGGATCCTTGAACCTCCACCACCGACTCAGCCCTCTGACAGCTACC
 CAACAGTCCAGGACAGCTGCATGGCAGCCGGCGGGCCGAGCATGCCATGGGTCCGCTCTG
 CATGCCCTGTCTGTGCCATGAGTGTCCCTGGCCCTTCTGCCATGGGCAGGCCCGCAGG
 AAGAGCCGGTAGGGGTGGAAAGGGGACTCAGATGAGACACACCCCAAGCTGCCACCGCC
 TTGTCCCTCAACAAGCTCACCCCCAATCCCTTGACGCCAGGCCACAATGGGGGAGGTGAG
 TCCAGCCCCCTTGGAAACAGGCTTGCCCAACATGGAGGGATGGCGTTGGCAGTGCCAGCCTC
 CCCAGCCTGTGCCAAGCTTCAACAGGGGCAAGAGGAGGGGCCGGCCCCTCCTCAGGAAGC
 TGGTATGAGTAAGGCCTTGAGGGTGCAGGCAGGCAGCCCTGTACCCACCCACATAGACT
 ATACTGTACATACAGATTTTGCAGTAGGCTTGGGGCAGCTGGGTTTGTCTTGATGTATG
 ATACTGTTATTATAATAATTATTATTATTCTGC

Gene 272. >ENST00000303165 cDNA sequence

CTCCGGCCGGCCACCCTAGGCCGGCCCCGCCAGCTGTGCGCCGACATGGAAACCTTGGCC
 AGCAACATCCAGGTCTGTGCTGCAGGCGGCCGAGTTCTTGAGAGCGCCGTGAGAGAGAGGCC
 GAGCATGGTTATGCGTCCCTGTGCCCGCATCGCAGTCCAGGCCCATCCACAGGAGGAAG
 AAGCGACCCCCCAGGCTCCTGGCGCGCAGGACAGCGGGCGGTGAGTGACAATGAACTG
 GAGAAGCGCAGGAGGGCCAGTTGAAGCGGTGCTGAGAGCGGCTGAAGCAGCAGATGCCC
 CTGGGGGCCGACTGTGCCCGGTACACCACGCTGAGCCTGCTGCGCCGTGCCAGGATGCAC
 ATCCAGAAGCTGGAGGATCAGGAGCAGCGGGCCCCGACAGCTCAAGGAGAGGCTGCGCAGC
 AAGCAGCAGAGCCTGCAGCGGCAGCTGGAGCAGCTCCGGGGGCTGGCAGGGGCGGCCGAG
 CGGGAGCGGCTGCGGGCGGACAGTCTGGACTCCTCAGGCCTCTCCTCTGAGCGCTCAGAC
 TCAGACCAAGAGGAGCTGGAGGTGGATGTGGAGAGCCTGGTGTGTTGGGGGTGAGGCCGAG
 CTGCTGCGGGGCTTCGTGCGCGGCCAGGAGCACAGCTACTCGCACGGCGGGCGGCCTGG
 CTATGATGTTCTCACCCAGGGCGGGCCTCTGCCCTCTACTCGTGCCAGGCCCACTTGCC
 AGGCAGGAGCCCTCCCCAAGCCTTCAGGGCTGCTCGGAGTCACTGTGTTGGAATGGACTAA
 AAGGACCCTTGTGTGGGAACAGGTGCTCCCCAAACACCCTGCTGCTGGCTGCCAGGCAGG
 CCTCTGGAAGGGAAGGGGAGGACTCATCAGGACCTCCCTGGACCCCTGCAGGGCAGGC
 AGCTTGGGCCCCGAGCCCAAGCATTTGGCTCTGCTGCCCCCAAGGGGACAGGAAGCCTCTT
 GGGCCTCTTCCCTTCTGGAACAAGGCCCCCTGCCTTTGCCTCACATAAACTGTACAGTAT
 TTTCATTAAAAGCCTCTTTTCAT

Gene 273. >ENST00000303182 cDNA sequence

ATGGAACCTTGGCCAGCAACATCCAGGTCTGTGCTGCAGGCGGCCGAGTTCTTGAGAGCGC
 CGTGAGAGAGAGGCCGAGCATGGTTATGCGTCCCTGTGCCCGCATCGCAGTCCAGGCCCC
 ATCCACAGGAGGAAGAAGCGACCCCCCAGGCTCCTGGCGCGCAGGACAGCGGGCGGTCA
 GTGCACAATGAACTGGAGAAGCGCAGGAGGGCCAGTTGAAGCGGTGCCTGGAGCGGCTG
 AAGCAGCAGATGCCCTGGGGGCCGACTGTGCCCGGTACACCACGCTGAGCCTGCTGCGC
 CGTGCCAGGATGCACATCCAGAAGCTGGAGGATCAGGAGCAGCGGGCCCGACAGCTCAAG
 GAGAGGCTGCGCAGCAAGCAGCAGAGCCTGCAGCGGCAGCTGGAGCAGCTCCGGGGGCTG
 GCAGGGGCGGCCGAGCGGGAGCGGCTGCGGGCGGACAGTCTGGACTCCTCAGGCCTCTCC
 TCTGAGCGCTCAGACTCAGACCAAGTCTTGCCCTAATGAAAACGGGGGAACTCCCAACCAC
 AGACCCACTGGCAGAGGAAATAATATCAGTTCCTCATCTGACACTGTTGGCCGTGCCAG
 GCAGTGCACTTAATTCTCACAACCTTGAGGCTGTTCTGTCTCCACTTCACGGATGGTAGAA
 ATGAGGCTGAGTGACGTGACTCGCCTGAGGTCCAAAAACAGTGAAGCCAAGATTCAAACC
 AGAGCCTTCCGACTCCAGAGCTGGGGCCAACTGAATTCAACAAGTATTTATTGAGTGTCT

FIGURE 1 (CONT'D)

ATTATGTGCTAGATACTGAGACACATCAGAGAACAAAAACCAAAAGCCCTGCCCTTGTGCGG
GCTTACAGTCTAGCACTTACCGCCAGTTAACCTGCAGGCTACCTGGAGCCCCGGGCAAGT
CACCGCACCTCTGTGCCTCGGTCTCAGCTGCCCAATGGGAGAATAAGCAGACCTGGCTC
AGACATGAATCATGTGCTTGGTGTACTGCAGATGCCAAACTGCATCCCCACAACCCACCA
CGTAGACAGCAGACAGGGCTGGAAGTTGATTTTTTAATGATAAAGTACAATGAAGGGAGGG
CAGAGGGGCTAAGCCTAGCTGTCTGGGGTGCTGTGGTGGTGGTAGACTGGCTACACAAC
TGTTGCTGCTGCTGCTGCTTCTTGGTGGCCGCCCTTGCTGGCGAGGTCCTTGGCCTTCTCT
GTAGCTGCCAGTGCCGTCTCCTTTGCCCTTCTCCTTGGCTTCCTTGGCTGTCTCAACAAGT
GTTTTGGAAGGGGCCCTCGCCTGTGCGGAACGGCAGGTGGCTGCCCTTTAGAAGATGCC'TGA
AAGACCAACCTAATTTCCCTCCCCCATGACACCAATCTCCTCTGGGCCAGGC'TCCACTAA
AAAGGTGGTATTACCCCTCCTCCCACCCCCAGTACAGACAAGGAGTCCCAGCTCAGAGCA
GGGCAATGACTAACCAGACTCCACGCCCGCTAGGCTGAATGAGCCTCTCCC'TATGAGGA
ATATCCACATACCCAGAAACTCACCTTGACAGCTTAGCCAAAGATATATTCAAACCC'TTCA
TAGTCTTGGTACGTTTGCTTTTGAACCGGGCAAGACCAAATTCTTGGCATGAGATGAGAA
TGGGAAGGATACTGAGTTGCCCACTGACCCCCAGCCAGCCCCAACACCGAAAGCACTGGG
TCCAGAGCCCCCAGCAGCCCCAACCAACTGCTCACCTGGACAGCTCTGGAGACACCAA
TAAGCTAGAGGAGACCCAGGCTTCCCGGCGGATTTTCACTCCAGCCACTGTTGTGAGAGTT
CACACAGTAAACACATCGTTTCTCCACCACCTATGCAGAGGCCAACCACAATCGTGGAAC
AGTCTTTTCATTTTGCCAACTTGACATAAATCTGACTCCCTGTCACTTTTTCATGAGGCGA
AGCAATACAATGAAAATTCATTCTTCCCCTGACTGCACCTCCAAGTGGCACTGACAGAA
CAAGAAGCCATAAATAAGGTGCTTTTGGCTCTCGAAAACTCTCTTCTGACTCTTAAACTA
GAAGGCAAAAGGTCTCTCTCTTGAGATCAACAAAGGGCCTTCCAGCCCATCTGCTCCTG
GATTTTGTTTTGTGTCATCTAGACGCATGCAGTGTTTTAGCCGCC'TTCCACCAGCTGCAGC
TCTGGAGCTTCTGACAGTCCAAATAAAAAACATTTGCCCGG

Gene 274. >ENST00000303204 cDNA sequence

CGCGCGCGGCCGGGACAACCTCATGGCGCGCGCGCGCGCGCGAGCTGCTTGGGCGCGGTG
CGGTGGTGA CTGAGCTACGAGCCTGGCGCGCGGTGTGCGCCGAGCCCCGGCCCGCCCCG
CCCTCGCGTGCCTCCAGGCTCCGCACCCCTGATGCTGCGCGGGTGTGAGCCCGCTTCG
GCCGGGACGATGGTGAAGTATTTCTGGGCCAGAGCGTGTCCGGAGTTCTTGGGACCA
GTGTTTCGCCGCCTTCTGGCAGCGGTACCCGAATCCCTATAGCAAACATGTCTTGACGGAA
GACATAGTACACCGGGAGGTGACCCCTGACCAGAACTGCTGTCCCGGCGACTCCTGACC
AAGACCAACAGGATGCCACGCTGGGCGGAGCGACTATTTCTGCCAATGTTGCTCACTCG
GTGTACGTCCTGGAGGACTCTATTGTGGACCCACAGAATCAGACCATGACTACCTTCACC
TGGAACATCAACCACGCCCGGCTGATGGTGGTGGAGGAACGATGTGTTTACTGTGTGAAC
TCTGACAACAGTGGCTGGACTGAAATCCGCCGGGAAGCCTGGGTCTCCTCTAGCTTATTT
GGTGTCTCCAGAGCTGTCCAGGAATTTGGTCTTGCCCGGTTCAAAAGCAACGTGACCAAG
ACTATGAAGGGTTTTGAATATATCTTGGCTAAGCTGCAAGGCGAGGCCCTTCCAAAACA
CTTGTTGAGACAGCCAAGGAAGCCAAGGAGAAGGCAAAGGAGACGGCACTGGCAGCTACA
GAGAAGGCCAAGGACCTCGCCAGCAAGGCGGCCACCAAGAAGCAGCAGCAGCAACAG
TTTGTGTAGCCAGTCTACCAACCACACAGCACCCAGACAGCTAGGCTTAGCCCCCTCTGC
CCTCCCTTCATTGTACTTTATCATTA AAAATCAACTTCCAGCCCTGTCTGCTGTCTACGT
GGTGGGTTGTGGGGATGCAGTTTGGCATCTGCAGTACACCAAGCACATGATTCATGTCTG
AGCCAGGTCTGCTTATTCTCCATTGGGCAGCTGAGGACCGAGGCACAGAGGTGCGGTGA
CTTGCCCGGGGCTCCAGGTAGCCTGCAGGTTAACTGGCGGTAAGTGCTAGACTGTAAGCC
CGACAAGGGCAGGGCTTTTGGTTTTGTCTCTGATGTGTCTCAGTATCTAGCACATAATA
GACACTCAATAAATACTTGTTGAATTC

Gene 275. >ENST00000312855 cDNA sequence

ATGGCGGCCGCCGAGGTTCGTGAACTGCATCATGGAGGTGTCCTGTGGCCAGGC GGAAGC
AGCGAGAAGCCGAACGTCGAGGGCATGACGTCCAAAGATTACTACTTTTGACTCCTACGCC
CACTTCGGCAAACCTCATGTTTTCAACAACCGCCACCTCTTTAAAGACAAGGTGGTGCTGGAT
GTGGGCTCGGACACAAGCATCCTCTGCATGTTTCGCCGCCAAGGCCGGGCGCAAGGTCATC
GGCATCGAGTGTTCCAGTAGCTCTGATTATGCGGTGAAGATTGTCAAAGCCAAACAAGTTA
GACCACCTTGGTGACCATCACCAAGGGGAAGGTGGAGGAGATAGAGCTCCCGGTGGAAGA
GAGGTAGACATCTACACCGTCAAGGTGGAAGACCTGACCTTCACCTCCCGGTTCTGCCTG

FIGURE 1 (CONT'D)

CAAGTGAAGCAGAATGACTACGTGCACACCCAGGTGGCCTACTTCAACATCGAGTTTACG
CACTGCCACAAGAGGACCGGAGGGACCGGCTTCTCCACCATACCCGAGTCCCTGTACACG
CACTGGAAGCAGACGGTGTTCTACATGGAGGACTACCTGACCTTGAAGACGGGCGAGGAG
ATCTTCGGCACCATCGGCATGCGGCCAACGCCAAGAACTGGGACCGGGACTTCACCATC
AACCTAGATTTTCAGGGGCCATCTGTGCGACCTGTCCTGCTCCACAGACTACAGGATG

Gene 276. >ENST00000303270 cDNA sequence

GCGGGAGTCGCGGCGCTGCGGGTAGGAGCCGGGTTGCGGGAGACCCAGGTTTCGGTTGGG
ATTCCCAGCCAGAACGGAGCTTAAGCCGGGCAGGCGAGCGAATGACGGAGTAGCGAGCTG
CACGGCGGCGTGCTGCGCTGTTGAGGACGCTGTCCGCGCGCTCCAGGCCGCCCGAGG
CTTGGGGTCTTTCGAAGGATAATCGGCGCCCGGGGCCGAACAGCGGGGACACAGGGGCGC
TGCCGAAGTGCAAGGCCACGGCCAGAGCTCGAGCCCAGCGCTGTCTGGAGTCGTAGGT
TGGCGCCGTTTGGGGTTCGGGGTCTGAGGCTTGGGCGCTGCCTGGGCCGAGCGGAGATCGG
GGTTTGCCTCCCGTCCCGCTCAGGACCCTGACGTGGCTGAAGCGGCCCGGGAGCATGA
GCGGGCAGCGCGTGACGTCAAGGTGGTGATGCTGGGCAAGGAGTACGTGGGCAAGACTA
GCCTGGTGGAGCGCTACGTGCACGACCGCTTCTGGTGGGGCCTTATCAGAACACCATCG
GGGCCGCCCTTCGTGGCCAAGGTGATGTGCGTCCGAGACCGGACTGTGACATTAGGTATTT
GGGACACAGCAGGCTCTGAGCGCTATGAGGCCATGAGTAGAATCTACTATCGGGGTGCCA
AGGCTGCCATCGTCTGCTATGACCTCACAGACAGCAGCAGCTTTGAGCGAGCAAAGTTCT
GGGTGAAGGAACTGCGCAGCCTAGAGGAGGGCTGCCAAATCTACTTATGTGGCACCAAGA
GTGACCTGCTGGAAGAAGACCGGAGGCGTCGACGTGTGGACTTCCACGACGTCCAGGACT
ATGCAGACAATATCAAAGCTCAGCTCTTTGAAACATCCAGCAAGACAGGCCAGAGTGTGG
ACGAGCTCTTCCAGAAAGTGGCAGAGGATTACGTCAGTGTGGCTGCCTTCCAGGTGATGA
CAGAGGACAAGGGCGTGGATCTGGGCCAGAAGCCAAACCCCTACTTCTACAGCTGTTGTC
ATCACTGAGTCAGCACTCACCTGGCCTGGGGGAATTAAAGGAATTCCCCGTAAGGGCTGG
ACCCAGCTCCTTTCTGGGCTTGGGTAGTCAAATGTCTGAGCTACCCAGGTCCTCATGTC
AGCAGAGTGGCGCCTGCCTGTGCTGGCCCATGGAAACGGAGACAGCATTGGGCTGACTGTG
GGCATGAGGAGGGATAAGGCTGATTTGGACCCAGGCTTCTGCCCTGGACAGCACTTGTG
TCTGCAGATTATTTAAGTGGCTTTTGATCTGTAAATAAAATCAGTGCACGTGTGAATCACA
CCCAGCCCCCTTCCCTGCTGTGTGGATTAGGTGTCAAGACACCTAGTTCTTTCTGGGGCC
ACCCGGCTGGCCTCACTGCTTATATTAAGGCTCCTCCCAACTCTCATTTTCTTTGGAAA
ACAAGACTTTTTTCCCCATGGTTACCGCTGAGATACTGGGGCTGTAGTAGTATAAAAGCT
CACAGTTCTTCTGAGTGCTGAAAAGAGTGATGAGTTGCTTCGAAATAAAAGGGTCAAG
CATT

Gene 277. >ENST00000306591 cDNA sequence

GCCGAGACCTCAGTTCCCGGCGGCTCTTGCGGGGCACAGGTGAGCCCTGGCTGCGCGCGC
GGCCCCCTCCTCCCGGCGCCTCCAGATGGGGGCTCCGGAGGTGGCGCCAGGCTCTGAG
CTACCCTAGGTCTGCAGACTAGCGGGCATTGGCCAGAGACATGGCCAGCCACTGGCCTT
CATCCTCGATGTCCCTGAGACCCAGGGGACAGGGCCAGGGCCCCAGCCCCCTATGATGA
AAGCGAAGTGACGACTCCTTCCAGCAGCTCATCCAGGAGCAGAGCCAGTGCACGGCCCA
GGAGGGGCTGGAGCTGCAGCAGAGAGAGCGGGAGGTGACAGGAAGTAGCCAGCAGACACT
CTGGCGGCCCGAGGGCACCCAGAGCACGGCCACACTCCGCATCCTGGCCAGCATGCCAG
CCGCACCATTTGGCCGCAGCCGAGGTGCCATCATCTCCAGTACTACAAACGCACGGTGCA
GCTTCGGTGCAGGAGCAGCCGGCCCTGCTCGGGAACCTTGTCCGCTCCGCCTGGCCAG
CCTCCGCTGTACGACCTGGAGCTGGACCCACGGCCCTGGAGGAGGAGGAGAAGCAGAG
CCTCCTGGTGAAGGAGCTCCAGAGCCTGGCAGTGGCACAGCGGGACCATGCTTCGCGG
GATGCCCTTAAGCCTGGCTGAGAAACGCAGCCTGCGAGAGAAGAGCAGGACCCCGAGGGG
GAAGTGGAGGGGCCAGCCGGGCAGCGCGGGGTCTGCTCCTGCTGTGGCCGGCTCAGATA
TGCCTGCGTGCTGGCCTTGACAGCCTGGGCCTGGCGCTGCTCTCCGCCCTGCAGGCCCT
GATGCCGTGGCGCTACGCCCTGAAGCGCATCGGGGGCCAGTTCGGCTCCAGCGTGCTCTC
CTACTTCCTCTTTCTCAAGACCTGCTGGCTTTCAATGCCCTCCTGCTGCTGCTGCTGGT
GGCCTTCATCATGGGCCCTCAGGTGCGCTTCCCAACCGCCCTGCCGGGCCCTGCCCCCGT
CTGCACAGGCCTGGAGCTCCTCACAGGCGCGGGTTGCTTCAACCAACCGTTCATGTACTA
CGGCCACTACAGTAACGCCACGCTGAACAGCCGTGTGGCAGCCCCCTGGATGGCAGCCA
GTGCACACCCAGGGTGGGTGGCCTGCCCTACAACATGCCCTGGCCTACCTCTCCACTGT

FIGURE 1 (CONT'D)

GGGCGTGAGCTTCTTTATCACCTGCATCACCTGGTGTACAGCATGGCTCACTCTTTTCGG
GGAGAGCTACCGGGTGGGCAGCACCTCTGGCATCCACGCCATCACCGTCTTCTGCTCCTG
GGACTACAAGGTGACGCAGAAGCGGGCTCCCGCCTCCAGCAGGACAATATTTCGACCCG
GCTGAAGGAGGGTGAGGACAAAATCTTCTTAATCAACAAGCTTCACTCCATCTACGAGAG
GAAGGAGAGGGAGGAGAGGAGCAGGGTTGGGACAACCGAGGAGGCTGCGGCACCCCTGC
CCTGCTCACAGATGAACAGGATGCCTAGGGGGACGGCGATGGGCCTCACGGGCCCGCCCA
GCACCTGAGACCACACTGTTGCCTCCAGTGACCCTGCTGGGACACCAGGACAAGGAAG
ACAGTTTCGCCTCTCGAAAGCCGCAGCTGCGCCTAGGCTGGAGCTGGAAGGGTGGGTGAA
TCCGGCTTGGGCATCCCCAATGAACTCTGCCCTGCCTGGGACTCTATTTATTCTGATTAA
AGGGGTTTTGCAAATGGGCTTGTCCCTTGGGGCTCTGTGTCTGTGACCACACCCGGGGCC
TGCTTCCCGCTGCCCTGGGGCCACCTCCAGGCGCAGGTCTGGGTCTGGGAACCTCAGCT
GGAGTGGGGGCGCCCTCTGCTGGCCAAGCCCCAGATGGCAGGGGCTGGACCGCGCCAGGG
CTTGATTGCTTGTGCTGCTTTGACCAGCCTGAACTCGCGCCAGGAGGGGCTTACACCTG
CACAAGTGAGCCGAGCAGGCACGGATTGTGACCAGAGCGATGCGTCAACCATTTGGGTGAT
GCTGTAGCATCTACTGGAGCAGGAGACAAATTTAGAGAGGGACTTGGAGGGGAGACATAT
CAGTTGCAAATGAGTTGTGGGGACAGTTGCCTCCAGGCATAGGTAAACAGCACCTGTGC
TTGGAGGCGAACAGGGCTTGGTGAGGTGGGGCTGGCCCCCTGCTTCTGGCTGCCAGCAGC
TGGCTGGGGGGTGGTGATCCTGGGTCTGACTGGGCTGAGTTTGAGGAGCCCGTGGGATAC
CGAAAACCGTAGGCTGTGGGGGGTGGGCACAGGGATTGCGGGACAGCCCGTCATGACCC
CGTGCTCCAGGTCTGCAGGGACAGCCCATGACAGCCAGGGCTCCAGGTCTGCGGGGAC
CAGCCCATCACAGCCAGGGCTCCAGGCCTGCGGGGACAGCCCGTCAGCCTCAGTTCTC
CAGGCCTGCGGGGACAGCCCGTCATGACCCCACTGCTCCAGGTCTGTGGGGACAGCCC
GTCAGCCTGTGCTCCAGGCCTGCAGGAACAGCCCGTCAGCCTCAGTGCTCCAGGCCTGC
GGGGACAGCCCGTCAGCCTGTGCTCCAGGCCTGCGGGGACAGCCCGTCATGACCCAG
TGCTCCAGGTCTGTGGGGACAGCCCGTCAGCCTGTGCTCCAGGCCTGCGGGAACAGCC
CGTCATGACCCCACTGCTCCAGGCCTGCGGGGACAGCCCGTCATGACCCCACTGCTCCA
GGTCTGTGGGGACAGCCCGTCACGGCGCAGGGTTCCAGGCTTGTGGGGACAGCCTGTC
ACAGCCAGGGCTCCAGGCCTGCAGGAGCTGCGCTTGGGATTGGGGGAATGAACCCAGGT
GGGGAATGGTCAAAGAGCGATGGGCCCAGAAAAGGGTCAGACCCAGATGGAGATGCCAC
TGGCTGCTAGCAGACCCCCACGCTGGGTCTAGCCCAACCAATCCCATGGGGATGCTCCTG
TGCTCTGCAGACATCTGGGTGCTGCCACAGGGGCCCCGACAGAGTTGGCATCTGGGTGGAT
CTGAGCCAAGTGGTGCTTCTGGGCCTCAGCAAGTAGCTGGTGCTGATTCTGGGCAGCCAA
CTGTGGCAGCATCTTCAGGTGCGAGTGCTGCTGGGTGAAGCTGCGTGGGCAGTCCAGAAA
GTGACGTGACAGTCCACAGGGACCGACGTAGGGTTTTCCAGCCCTATCTGTGCAGATGCT
GTCCTCCAAACCATCACGGTCCCTCTCTGGCTGGGGACGTGCGCCTGCCACTGCTGGCTT
GCCAGCATGATCATTGGTTGTGACCTGTTGAGCCCATCTTGCCAGCCTCACAAAGGACAG
TACTAGCTGCTTATGACAGGAAAGTGAAGAAGTGGCCTGGATATTTCTGGAGAATTAC
CGTGTGTGCTAGTCAGTCTTTCTGTGTCAACCAGGCCAGGCTGTGGGGCCAGTGATCTCA
TCGAGAGGGGCGAGGTGTTGCTGTGATCGTGTGCTGCTGGAATGTGGTGAACACCTACA
GTCGATTTACCTAAAGATCATCCTTGAGAATGTGGGTGGGCCTCATCCTATCAGCTGAA
AGCTTTAAGAGCAAAACCCGAGGTGTCCAGAGAGGGAATTCTGCCTTGAGACGGCGGCT
TCCCACTCCCACTGGATGTCCAGCCCGCGGCCCCACGGCTGGGTGAGCCCGTCCTCTCCT
CGTTTCTGTCTCCGGACCCACCGTGTGGCCCCAGACCCTCCAGTGAGGACCTCCCGTATT
TCTTCAGAGCAGCCCTTGCCTGCTGGAGGCCTGGGCTTCAGTGTGTCCCTGGGTGCCCTG
GGGCATGTTCTGTGACCTCCAGCTCCTCGCCTCATGGGGCCGCTGTATCAAGTGACACA
GTTTGTGTGCTGCGTACCATGCTGGCACCCATTTGAGGTGTTGCAAGGAGGCCATGTTT
GCTCGATGAGAGCAGCCTAAGATCTACAACTGTTGTTGAGTGGATGGGAACCTTGATGC
TATTTTCAGGCTGAATGACAAGACTCCGCGATGCTTCTCGGCCTGGGCTGCACAAACGGAA
TCTACCAGGGAGGTTTTAAAAACACTGGTACTTGCTGGAGGTGGTGGCGCCTGTCTGTAA
TTGCAGCTGCTCCAGAGGCTGAGGCGGAGGATTGCTTGAGCCCAAGAGTTTCGGTTTATT
TGCTTTTTTCAGAGTCTTG

Gene 278. >ENST00000307832 cDNA sequence

ATGGGAAGTTTCAACACCAGTTTTGAAGATGGCTTCATTTTGGTGGGATTCTCAGATTGG
CCGCAACTGGAGCCCATCCTGTTTGTCTTTATTTTATTTTCTACTCCCTAACTCTCTTT

FIGURE 1 (CONT'D)

GGCAACACCATCATCATCGCTCTCTCCTGGCTAGACCTTCGGCTGCACACACCTATGTAC
TTCTTTCTCTCTCATCTGTCCCTCCTGGACCTCTGCTTCACCACCAGCACCCTGCCCCAG
CTCCTGATCAACCTTTGCGGGGTGGACCGCACCATCACCCGTGGAGGGTGTGTGGCTCAG
CTCTTCATCTACCTAGCCCTGGGCTCCACAGAGTGTGTGCTCCTGGTGGTGATGGCC'TTT
GACCGCTATGCTGCTGTCTGTCTGTCCACTCCACTACATGGCCATCATGCACCCCATCTC
TGCCAGACCCTGGCTATCGCCTCCTGGGGTGCGGGTTTCGTGAAC'TCTCTGATCCAGACA
GGTCTCGCAATGGCCATGCCTCTCTGTGGCCATCGACTGAATCACTTCTTCTGTGAGATG
CCTGTATTTCTGAAGTTGGCTTGTGCGGACACAGAAAGGAACAGAGGCCAAGATG'TTTGTG
GCCCGAGTCATAGTCGTGGCTGTTCTTGCAGCACTTATTCTAGGCTCCTATGTGCACATT
GCTCATGCAGTGCTGAGGGTGAAGTCAACGGCTGGGCGCAGAAAGGCTTTTGGGACTTGT
GGGTCCCACCTCCTAGTAGTTTTCTTTTTTATGGCTCAGCCATCTACACATATCTCCAA
TCCATCCACAATTATTCTGAGCGTGAGGGAAAAATTGTTGCCCTTTTTTATACTATAATT
ACCCCCATTCTCAATCCTCTCATTTATACTAAGAAACAAGGACGTGAAGGGGGCTCTG
TGGAAGTACTATGGAGGGGCAGGGACTCAGGGTAG

Gene 279. >ENST00000332144 cDNA sequence

GGAGGGGCGCTGTGAAAAAATGGTTAATGTGAAGAAAAGTAAATTCCTATGAAGCTGATGTG
CTTCGACAAGAAGTAGAAAATCATTATAAGCTCTCTTCACCTGAAGATTCCGATCGTTTC
TGGAAGTTCCTTTGAAGAACTTGATCCTGAAAAAGCCAGCTGATCTTTCTGCAAGCCTCGGA
CTTCAGTTAGGTGGTCCTTATGATATCCTTGCTGGAAAAACATAAAATTAAGAAAAATTCA
ACAGGCCTGAATGTTAGCCTTCATTGGAGGTTTTACCATGATCCTCCTGAGTTCCAGACC
GTCATTATTGGAGATAATAAACTCAGTACCACATGGGGTATTTTCAGGGATTCTTCTGAT
GAACCTCCTGCATATGTTGGTATAAATGAAGCAAGAAAAAGTGTAACAATTGTTCCAAAT
GGAGATAATGTATTTGTGGCAGTCAAATTATTTTTGATGAAAAAACTTAAAGAAGTAACG
CATAAAAAAGAAAACTAATCTCTTGAAAAACATAGATGAAAAACTCGCAGAAGCAGCCAGA
GAAATGGGGTCCTCACTGGAACAGACAACCACGAAGATGAAAGATAAGAAAGTTGTGACG
AAGGCCTTTCATGGTGCAGGCTTGGCTGTTCCAGCAGATAAAAAATGATGTTGGGTACAGA
GAGCTCCCTGAAACAGATGCTGACGTCAACAGAATTTGCAAGACAATAGTTGAGGCTGCA
AGTGAGGAGAGACTGAAAGCTTTTGTTCATTCAGGAAATGATGACTTTTCGTGCAGTTT
GCTAGTGATGAATGTAATTGTGGGAAGGGGCGTGAGTTGGGAATGGAGCTCTTTTGCTGT
GGCTCACATTATTTTCATAAAGTTGCTGCTCAGCAATTACCTCTTGCAATAATCTGTTG
AAGAGGAATCTGGAAATTATTGAGGATCATTTGGCAAACAGAAAGTAAAGAGAACATAGAG
CAACTTGCTGCATGA

Gene 280. >ENST00000274820 cDNA sequence

[illegible]

FIGURE 1 (CONT'D)

CATCAAAGACATCTACTTCTGAATGAGGGCTGCGCCAACCGCCTTCCCAATGGACACGT
CAACTTTGAGAAATTCCTGGAGCTGGCCAAGCAGGTGGGGGAGTTCATCACCTGGAAACA
AGTGGAGTGTCCCTTCGAGCAAGACGCCAGCATCACCCACTACCTGTACACCGCCCCAT
CTTCAGTGAGGATGGTCTTTATTTGGCTTCTTACGAAAGTGAGAGCCCAGAGAACCAAAC
AGAAAAAGAAAGATGGAAAGCTCTAAGAGATCTTCTATTTTGGGGAAGACATGAAAGCGC
TGAGCTGAGGGACGAGGAAGAGCTGGAGCCCGCAGAAGCCGTCCACAGCCCTGCCTCAGT
GGCCAGTGGGCAGAGGCCAGGGAGTGCCTCACTATTTTGCAAATGCCGACCCTGTGGCC
TGCTGCCCCGCCCCCCCCCCCCCAGTGGCCATACGGGCACAGGAGACCTTTTATGGGA
CTTTGGCCCTGGCAGGACCCAGGGCCTCCAGACGTGCGGGCGGCACATGCCTTGGGGACA
TCCTGCCTTCAGGACCGTGGGGCCTGGTCAGTCTGTCCATCCTCGGCAAGGACACAACAC
TGCCCCAGAGGGTGGGACCACTGCAAGCTCGAGACCTTGCTTGGTGACATGTGCCACTTT
GGCCACCACCCACAGTCTGTCAACAGTGGCTTGGGAACCTTCTGGAGCCACAGCAGGCAT
CACGGTGCGACGTGAGATGCCTGCGCCAGCCCCGAGCCCACTGGCAGCCACTGCCATTCC
ACCCATGGTCCCTCACCTGCCCTGCCGACGAGCTTGTCTCTGCAGCCCCAGGTACCCCC
TTCCTGGATGCTGCTGGCCCCAGGAGATAGCTTTCGGTGACAGCTGTGGAACGCGTCAA
CAGGACAAACTGGACACATGGAGTTACAGTGTGTACACGGCAGTCCCGCCACCCAGCCCC
CTTGTAAGTCTAGTCACTATAAACACACCCGTACGCCT

Gene 281. >ENST00000319571 cDNA sequence

ATGGGGTTTCTCCACGTTGGTCAGGCTGGTCTTGAACCTCTGACCTCAGGTGATCCACCC
ACCTCAGCCTCC

Gene 282. >ENST00000320451 cDNA sequence

AAGATGTTCCAGTCAGGATTCAATCCTTGATACACAGCAAAGCATTCTATGGTAAAAAG
GCCCCATAACTGTAATTCACATGGAGAAGATGCCACACAAAATTCTGAGTTAATTAAAC
TCAAAGAATGTTTGTAGGAAAGAAGATCTATGAATGTAATCAGTGCAGCAAAACCTTCAG
TCAGAGCTCATCCCTTCTTAAGCACCAGAGGATTCACTAGGGGAGAAACCTATAAGTG
TAATGTATGTGGGAAACACTTCATTGAACGATCCTCCCTTACTGTACATCAAAGAATTCA
TACTGGAGAGAAACCTATAAATGTAATGAATGTGGGAAAGCCTTTAGTCAGAGCATGAA
TCTTACTGTCCATCAACGAACTCACACCGGAGAGAAACCTATCAGTGTAAAGAGTGTGG
CAAAGCCTTCCATAAGAATTCATCTCTTATTACAGCATGAAAGGATTCACTAGGAGAGAA
ACCCTACAAATGTAATGAATGTGGTAAAGCTTTTACCCAAAGCATGAATTTGACAGTTCA
TCAGAGAACTCATACAGGAGAAAAACCTATGAATGTAATGAATGTGGAAAAGCCTTCAG
TCAAAGCATGCATCTTATTGTACATCAGAGAAGCCATACTGGAGAAAAACCTATGAGTG
TAGTCAATGTGGAAAAGCCTTTAGTAAGAGCTCAACTCTTACCCTACATCAGCGAAATCA
CACTGGAGAAAAACCTTACAAATGTAACAAATGCGGGAAATCCTTTAGCCAAAGTACATA
TCTTATAGAACATCAGAGACTTCATTCTGGAGTAAAAACCTTTTGAATGTAACGAGTGTGG
AAAAGCTTTTCAGTAAGAATTCATCTCTAACTCAACATCGGAGAATTCACACTGGAGAGAA
ACCTTATGAGTGTATGGTGTGTGGAAAACATTTCACTGGACGATCATCCCTTACCGTGCA
TCAGGTCAATTCACACTGGAGAGAAACCTTATGAGTGCAATGAATGTGGAAAGGCATTTCAG
CCAGAGTGCTTACCTTATTGAACATCAAAGAATTCATACTGGTGAGAAACCTATGAATG
TGATCAGTGTGGAAAAGCCTTCATTAAGAATTCATCCCTTACAGTGCATCAGAGAACTCA
TACAGGAGAGAAAAACCTATCAGTGTAAATGAATGCGGAAAAGCCTTCAGCCGGAGTACAAA
CCTTACACGACATCAAAGAACTCATACGTGAGGAATGTTTTCACTGGCCCTTACCTCATG
ATTAACCTCTTCAGTAATAATCATATGAGACATACAATGTAGAAACCTAATAAATGTAATG
ATTGTGGGAATCTTTTCAGTTGAAGTACAATATGTCATATCAGATAATACCACTGCAGAGA
ATCCATCTAAAAGTAGAGAAATCTTGATTGAGAATGTATAATTTCTTTTATATCAGAAGG
TTTAAATAGCTAATATAAACAATGAAGAGTCATGCTGAAGATAAGTTCTGTTATATCATA
CCGCACATTCTCCTTTGGCTATCAGAGACTTTTCACTGGAGAGAAAAATGTGAGAGTGT
TAACTGGACAGCCCAGAGACCTGGTATGTAGTCCTAATCTGCCACTGCCTTGGACAACTT
GCCTACTTCCACCAGGTTATGGTTCTTTATTTGGTAAATGAATGATTTTGGAGTTAGAAA
TCTTGTAGGAGCTCTGTTAGCTCTAAAATGCTACAACCTCTATAAATATAATGAATGCTGG
G

Gene 283. >ENST00000258707 cDNA sequence

GGGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCCACC
TCAGCCTCC

FIGURE 1 (CONT'D)

Gene 284. >ENST00000320129 cDNA sequence

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ATTGTGTTCTGACTGCGATGTGGCGCTTGCGATCTCTCGCCGCCGGCAGAGGCTCCTCGA
AGAGCGACACGGGGCTGACCAGGCACGGTGGTCAAAGCCGAGAGGGAGAGCGGGAGCGG
TCGTGAGGTCTGTCTGGGGAGAAGGGCGGAGGCAAAGCCGAGGAGCAGGTGTGTGGACCCT
TCTAGCCTGAGGAGTCTGTCAGGTGTGAAGCTCCACACCTGCCTCCATAGCACTTTGCCT
GTCCCTAAGAGGGCTCATCGGAGAAGAAAGAATGGCTGTCAGCCACCTGCCAACCATGGT
CCAGGAATCGGTGACCTTCAAGGATGTGGCTATACTGTTCACCCAGGAAGAGTGGGGGCA
GCTGAGCCCCGCCAGAGGGCCCTGTACAGGGACGTGATGCTGGAGAACTACAGCAACCT
GGTCTCACTGGGACTCTTAGGACCCAAACAGATACGTTTTCCAGCTAGAAAAAGGGA
AGTGTGGATGCCAGAGGACACCCCTGGAGGCTTCTGTCTTGACTGGATGACTATGCCTGC
CAGTAAGAAATCTACTGTCAAGGCAGAGATTCTCTGAAGAAGAATTGGATCAATGGACAAT
AAAGGAAAGATTCACTAGCAGTAGTCACTGGAAGTGTGCTAGCCTGCTGGAGTGGCAATG
TGGAGGCCAGGAGATCAGTTTGCAGCGAGTGGTACTCACTCACCCACACCCCCATCACA
GGAATGTGATGAATCCGGGAGCACTATGAGCTCATCTCTTCACAGTGATCAAAGTCAGGG
ATTTCAACCTAGCAAAAATGCCTTTGAGTGTAGTGAAGTGTGAAAAAGTCTTCTCTAAGAG
TTCAACTCTTAATAAACATCAGAAAATTATAATGAAAAAATGCAAATCAGAAAATTCA
TATTAAGGAGAAAAAGATATGAATGTAGAGAATGTGGGAAAGCCTTTACCAGAGTACGCA
CCTTATCCATCACCAAAGAATTCACTGGCGAGAAACCTATGAATGTAAGGAATGTGG
CAAGGCCTTCTCAGTGAGCTCCTCACTTACGTACCATCAGAAAATTATACTGGAGAGAA
GCCTTTTGAATGCAACTTATGTGGAAAAGCCTTTTATCCGAAATATACACCTTGCCCATCA
TCATAGAATACATACTGGAGAGAAACCTTTTAAATGTAACATTTGTGAAAAAGCCTTTGT
GTGCAGGGCACACCTTACCAAACACCAGAATATCCACAGTGGAGAGAAACCTATAAATG
CAATGAATGTGGAAAAGCCTTTAATCAGAGTACAAGTTTCCTTCAGCATCAGAGAATTCA
CACTGGAGAGAAACCTTTGAATGTAATGAATGTGGGAAGGCCTTCAGGGTGAACCTCTTC
CCTTACTGAACATCAGAGAATTATACTGGAGAGAAACCTTATAAATGTAATGAATGTGG
GAAAGCTTTTCAGGGATAATTCATCCTTTGCACGACATCGGAAAATTCACTGGAGAGAA
ACCTTACAGATGTGGCTTGTGTGAGAAAGCCTTTTCGGGACCAATCAGCACTAGCCCAACA
TCAGAGAATTATACTGGGGAAAAACCTTATACATGTAACATATGTGAAAAAGCCTTCAG
TGACCATTTCAGCCCTTACCCAACATAAGAGAATTATACTAGGGAAAAACCTTACAAATG
TAAAATCTGTGAGAAAGCCTTTATCCGAAGCACTCACCTGACTCAACATCAGAGGATTCA
CACAGGAGAGAAACCTTATAAATGTAATAAATGTGGGAAAGCCTTTTAACCAGACTGCAAA
CCTCATTTCAGCATCAGAGACATCATATTGGAGAGAAAGTGATATGAATGCAGTTTGTATGG
AAGACCTTTGAGACTGAGTAGATGAATTATTGAATGTGAGATAATCCGTTCTAGAGAATA
ACTATGAAAGCTTGCAATCAAGATAGTCACTTTATTTACTGAGGGTCAGGTTTCACAGTGT
CATGGGGTTTGGGCATTTAAGAATGGCAAACTCGGCTGGGCACAGTGGCTCACGTCTG
TAATCTTTGGGAGCACTTTGGGAGGCCGAGGTGGGCGGATCACGAGGTGAGGAGATCGAG
ACCATCCTGGCTAACAGGGTGAAACCCCATCGCTACTAAAAATATAAAAAATTACCCGGG
CATGGTGGTGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCATG
AACC CGGAGGCAGAGGTTCAGTGAGCCGAGATCGTGCCACTGCACTCCAGCCTGGGCG
ACAGAGCAAGACTCAGTCTC
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Gene 285. >ENST00000319065 cDNA sequence

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ATGCAGCTGGATGGGCTGCAGGCCCTCTGCTGGGGGTCTTGTTCAGGACACAGCTTGTA
CCAGTATATGTGGCGGTCTGCCCCTCTCCCCAGCCCTGCATACCTCCCACTGCACAGCA
TTCACGGAATTCTCAGGCCCACTCGCAAAACACCACAGCTTCAGCCTTTCCAGGTGGCT
GCTCCAGCTGGCCCCAGGTCCCCACCCCAACCTTCCATCTCCCATCTGTGTCCCAGGTC
CATGCCACACACCTTCTGTGCCCCGTCCGTGTCTTGGGCCCCCTTACCCTCCCTCTCTT
GAGTTACTGACCTCCATCCACAGCCCAGCTGTCTTCTGCCCCACAGATACCCAGATC
AGCTATGCCTCCACAGCCCCGGAGCTCAGCGACTCCACACGCTATGACTTCTTCTCCCGG
GTGGTGCCACCCGACTCCTACCAGGCGCAGGCCATGGTGGACATCGTGAGGGCACTGGGA
TGGAATATGTGTCCACGCTGGCCTCCGAGGGCACTATGGCGAAAGTGGGGTTGAGGCC
TTCGTTTCAGATCTCCCAGAGGCTGGTGAGCTGGGGGCTCCGAGGCACCAAGGAGTCTAC
ATAGTGTGGGCCCCGGGGCCCTCAGTTGGGGCAGAAGCAGAAAGATGGGGGGCCAGGTCC
ATGCTGGGCGGAGGTTGCCTGGCTGGTGCTCCATGTGGGCGGGACCTCTTTGTTTGGAC
GACTCAGCCCTGCCTCAGGCTTGGCGGAGGGTGCAGGCCAGACTTCACCCCTGCAGACCC
```

FIGURE 1 (CONT'D)

TTCAGCCAGCCTACACAGTCCTCTGCAGCGGTGGCCAGGTGGTCTATCAAGATTCCCAGG
 GAACCAAAGCCAGGAGAGTTTTCAGCAAGGTGATCAGGAGACTCATGGAGACGCCAACGCC
 CGGGGCATCATCATCTTTGCCAATGAGGATGACATCAGCCCTGCTCCTACCAGGCGGGTC
 CTGGAGGCAGCTCGCCAGGCCAACCTGACCGGCCACTTCCTGTGGGTCTGGCTCAGACAGC
 TGGGGAGCCAAGACCTCACCCATCTTGAGCCTGGAGGACGTGGCCGTTGGGGCCATCAC
 ATCCTGCCCAAAGGGCCTCCATCGACGGATTTGACCAGTACTTCATGACTCGATCCCTG
 GAGAACAAACCGCAGGAACATCTGGTTCCCGAGTTCTGGGAAGAGAATTTTAACTGCAA
 CTGACCAGCTCAGGTACCCAGTCAGACGATTCCACCCGCAAATGCAAGGTGAGAGCTGC
 CCAGGGTGGACAGGCGAGGAACGCATCGGCCGGGACTCCACCTACGAGCAGGAGGGCAAG
 GTGCAGTTTGTGATTGATGCGGTGTACGCCATTGCCACGCCCTCCACAGCATGCACCAG
 GCGCTCTGCCCTGGGCAACAGGCCTGTGCCCGGCGATGGAACCCACTGATGGGCGGATG
 CTTCTGCAGTACATTTCATGTCCGCTTCAATGGCTGAATCGCATCCATTGTGTGAATGG
 CCCCCTCGTGTTCTGTCATTCTTCTGTGAGTGGACGCTCGGGTTGCTTTCATCTTGTGGC
 TATGTGAATAACGCTGCTGTGAACGTGGCTGTACAAGCATTTCTTGCCACCCTGCTTTCT
 AGTCTCTCGAGTATCTACCCGGGAGTGGAAGTCTGCTGGGTATGTGTTTAATCTTTTGAGG
 AGGCTCCACACTGTTTTCTGCAGCGGCTGCAGCCTTTTCCACCCACCGTGCAAGGGC
 AGCGCAGGAACCCCTGTGATGTTCAACGAGAACGGAGATGCGCCGGGCGGTACGACATC
 TTCCAGTACCAGGCGACCAATGGCAGTGCCAGCAGTGGCGGGTACCAGGCAGTGGGCCAG
 TGGGCAGAGACCTCAGACTGGATGTGAGTGTGCAGACCGAGCCCGAGGTGGGCATGGGC
 CCAGGATCCCGGAGGCAGACGCCCCAGCCTGTGTTTTGTGCGTCCAGGTGGAGGCCCTG
 CAGTGGTCTGGCGACCCCCACGAGGTGCCCTCGTCTCTGTGCAGCCTGCCCTGCGGGCCG
 GGGGAGCGGAAGAAGATGGTGAAGGGCGTCCCCTGCTGTTGGCACTGCGAGGCCTGTGAC
 GGGTACCGCTTCAGGTGGACGAGTTTACATGCGAGGCCTGTCTGGGGACATGAGGCCC
 ACGCCAAACACACGGGCTGCGCCCCACACCTGTGGTGGCCTGAGCTGGTCTCTCCCC
 TGGGCAGCCCCGCGCTCCTCTGGCCGTGCTGGGCATCGTGGCCACTACCAAGGTGGTG
 GCCACCTTCGTGCGGTACAACAACACGCCCATCGTCCGGGCCTCGGGCCGAGAGCTCAGC
 TACGTCTCTCTACCCGGCATCTTCTCATCTACGCCATCACCTTCTCATGGTGGCTGAG
 CCTGGGGCCGCGGTCTGTGCCGCCCGCAGGCTCTTCTGGGCCTGGGCACGACCTCAGC
 TACTCTGCCCTGCTACCAAGACCAACCGTATCTACCGCATCTTTGAGCAGGGCAAGCGC
 TCGGTACACCCCCCTCCCTTCATCAGCCCCACCTCACAGCTGGTCATCACCTTCAGCCTC
 ACCTCCCTGCAGGTGGCTGCGTCCGGCCTGGGGTCATCTGTGGTTTTGCCTGCGTGGGACC
 TTACCACACCCTCTCTTTTGGAGAAAGACCTGGGTTTTTCTGTGGACCCCTCACTT
 CTACTCTTGGATCATGTGGTATGGGTGAACCTCACCTCCTTAGGCTCCAGCTGGCACTGT
 GATGGGTCTCGGAACGCTCCGAGGTGGGAGGAGAGGCCAGGAGCTGCTTCTCAGGCTCTT
 ACCTTTTTCTATGGCCAGGTGAGGGGCGGGGAGACTGGCCTCATGTGAAGGTATGGTC
 GTGGTGTACCAGAGCAGTCTTGTGTACTACATGAAGCAGGCGCAGGCTGGACGTGTGAAG
 ACAGAGCTGTGAAGGTGGCACATCACAGGTGGCCAAGTCTGTCCCTGAAGAGTCCCAA
 ATCGTGGTCTTTCATCTTGTACAGCTGGGTATGTGCACATGGCCATTAGGACTACAAGA
 GCAAGCTGCACTTAATGCCGCTGACGCTAGTTCTTGAGCCGCGGCTGAGGTGAATGAG
 ACTCAAGTGGCTGCACGCCTTGGTCTGGCTCAACGGTAGGCACATACCAAGTAGTGGTA
 GTTCTCATGCGTTTATTACAGATAGACAAAACCAACCAACTCAGCTTAGAAACGTGC
 TTCTCAGGGATTCAAGGGTTTCTCGCCAGTGTGAATTCTTTGGTGATGGATAAG

Gene 286. >ENST00000231188 cDNA sequence

CGGAGGCCCGGCAGGCCGGCTGAGCTAACTCCCCAGAGCCGAAGTGGAAGGCGGCCCC
 GAGCGCCTTCTCCCCAGGACCCCGGTGTCCCTCCCCGCGCCCCGAGCCCGCGCTCTCCTT
 CCCCCGCCCTCAGAGCGCTCCCCGCCCTCTGTCTCCCCGAGCCCGCTAGACGAGCCGA
 TGGCGCGGCCCCGGAGAGCCCGGAGCCGCTGCTCGTGGCGCTGCTGCCGCTGGCGTGGC
 TGGCGCAGGCGGGCCTGGCGCGCGCGGGGCTCTGTGCGCCTGGCGGGCGGCCTGACGC
 TGGGCGGCCTGTTCCCGGTGCACGCGCGGGGCGCGGCGGGCGGGCGTGCGGGCAGCTGA
 AGAAGGAGCAGGGCGTGACCGGCTGGAGGCCATGCTGTACGCGCTGGACCGCGTCAACG
 CCGACCCCGAGCTGCTGCCCGGCTGCGCCTGGGCGCGCGGCTGCTGGACACCTGCTCGC
 GGGACACCTACGCGCTGGAGCAGGCGCTGAGCTTCTGTGAGGCGCTGATCCGCGGCCGCG
 GCGACGGCGACGAGGTGGGCGTGCCTGCCCGGGAGGCGTCCCTCCGCTGCGCCCCGCGC
 CCCCCGAGCGCGTCTGGCCGCTCGTGGGCGCCTCGGCCAGCTCCGTCTCCATCATGGTCG

FIGURE 1 (CONT'D)

CCAACGTGCTGCGCCTGTTTTCGATACCCCAGATCAGCTATGCCTCCACAGCCCCGGAGC
 TCAGCGACTCCACACGCTATGACTTCTTCTCCGGGTGGTGCCACCGACTCCTACCAGG
 CGCAGGCCATGGTGGACATCGTGAGGGCACTGGGATGGAACCTATGTGTCCACGCTGGCCT
 CCGAGGGCAACTATGGCGAAAGTGGGGTTGAGGCCTTCGTTTCAATCTCCCGAGAGGCTG
 GGGGGGTCTGTATTGCCAGTCTATCAAGATTCCAGGGAACCAAAGCCAGGAGAGTTCA
 GCAAGGTGATCAGGAGACTCATGGAGACGCCAACGCCCGGGGCATCATCATCTTTGCCA
 ATGAGGATGACATCAGGCGGGTCTGGAGGCAGCTCGCCAGGCCAACCTGACCGGCCACT
 TCCTGTGGGTGGCTCAGACAGCTGGGGAGCCAAGACCTCACCATCTTTGAGCCTGGAGG
 ACGTGGCCGTTGGGGCCATCACCATCTGCCCCAAAGGGCCTCCATCGACGGATTTGACC
 AGTACTTCATGACTCGATCCCTGGAGAACAACCGCAGGAACATCTGGTTTCGCCGAGTTCT
 GGGAAAGAGAATTTTAACTGCAAACTGACCAGCTCAGGTACCCAGTCAAGCATTCCACCC
 GCAAATGCACAGGCGAGGAACGCATCGGCCGGGACTCCACCTACGAGCAGGAGGGCAAGG
 TGCAGTTTGTGATTGATGCGGTGTACGCCATTGCCACGCCCTCCACAGCATGCACCAGG
 CGCTCTGCCCTGGGCACACAGGCCTGTGCCCGCGATGGAACCACTGATGGGCGGATGC
 TTCTGCAGTACATTTCGAGCTGTCCGCTTCAATGGCAGCGCAGGAACCCCTGTGATGTTCA
 ACGAGAACGGAGATGCGCCCGGGCGGTACGACATCTTCCAGTACCAGGCGACCAATGGCA
 GTGCCAGCAGTGGCGGGTACCAGGCAGTGGGCCAGTGGGCAGAGACCCCTCAGACTGGATG
 TGGAGGCCCTGCAGTGGTCTGGCGACCCCCACGAGGTGCCCTCGTCTCTGTGCAGCCTGC
 CCTGCGGGCCGGGGAGCGGAAGAAGATGGTGAAGGGCGTCCCCTGCTGTTGGCACTGCG
 AGGCCTGTGACGGGTACCGCTTCCAGGTGGACGAGTTCAATGCGAGGCCTGTCTGGGG
 ACATGAGGCCACGCCCAACCAACCGGGCTGCCGCCACACCTGTGGTGCCTGAGCT
 GGTCTTCCCCCTGGGCAGCCCCGCCGCTCCTCTGGCCGTGCTGGGCATCGTGGCCACTA
 CCACGGTGGTGGCCACCTTCGTGCGGTACAACAACACGCCCATCGTCCGGGCCTCGGGCC
 GAGAGCTCAGCTACGTCTCTCCTCACCGGCATCTTCTCATCTACGCCATCACCTTCTCA
 TGGTGGCTGAGCCTGGGGCCCGGTCTGTGCCGCCCGCAGGCTCTTCTGGGCCTGGGCA
 CGACCCTCAGCTACTCTGCCCTGTCTACCAAGACCAACCGTATCTACCGCATCTTTGAGC
 AGGGCAAGCGCTCGGTCAACCCCCCTCCCTTCATCAGCCCCACCTCAAGCTGGTCATCA
 CCTTCAGCCTCACCTCCCTGCAGGTGGTGGGGATGATAGCATGGCTGGGGGCCCGGGCCCC
 CACACAGCGTGATTGACTATGAGGAACAGCGGACGGTGGACCCCCGAGCAGGCCAGAGGGG
 TGCTCAAGTGCACATGTCCGATCTGTCTCTCATCGGCTGCCTGGGCTACAGCCTCCTGC
 TCATGGTCAGTGCACAGTGTACGCCATCAAGGCCCGTGGCGTGCCGAGACCTTCAACG
 AGGCCAAGCCCATCGGCTTCAACATGTACACACCTGCATCATCTGGCTGGCATTCTGTGC
 CCATCTTCTTTGGCACTGCCCAGTCAGCTGAAAAGATCTACATCCAGACAACCAAGCTAA
 CCGTGTCTTTGAGCCTGAGTGCCTCGGTGTCCCTCGGCATGCTCTACGTACCCAAAACCT
 ACGTCATCCTCTTCCATCCAGAGCAGAATGTGCAGAAGCGAAAGCGAGCCTCAAGGCCA
 CCTCCACGGTGGCAGCCCCAACCAGGGCGAGGATGCAGAGGCCCAAGTAGCAGGGCA
 GGTGGGAACGGGACTGCTTGCTGCCTCTCCTTTCTTCTCTTGCCTCGAGGTGGAAGCTG
 TATAGAGCCCGGGTCCACGGTGAAAGTCAAGTGGCAGGGAGTTTGCCAAGACCATGCTCC
 GCGTCCGTGGGGCTGGCCTTGAGAAGGAACTGGACCCAGCTCTACCCGATTCCAGCATG
 TGAGCTTCATGCTTCTCACCACAGACCAGACTCGCTTCCCATGGTGGGAAACAGCCACC
 GAGAAGGTTCTAGCTCTAGAAAGGGAATAAATTATTCTCTCATCCGAAGTCAAAGAGG
 ATGATGAAGCCCTGGGCTTTGCCTGGTTTGCGGGAGATTTCTCCCTCAGTCAACCCCC
 ATAACCTGGGGATTGGGCAGTGTGGAAGAACGTGTAGACCCCAAGATGAAACATGGGGTT
 GGAGTGGAGGAGGAGCTGTCTCAGCAAGAGGAGACCTGGGGCTGTGCATCTGGATGGAGG
 CACTCAGGCCTGGGTAGGATTCTCTGGCACGGAGGGAGAGACCTGGGTGAGACCCCTG
 TGAGCATGGGAAGGGCCTGCAGTGGGCGCGGGAGTGAGCTGAGGAACTGGGGTGCGCCCC
 CATGAGATTCCCAATGCCATGGGCTTTCCCCCATCCCCCGGGATTGGGCAAGGTGAGAC
 TTAGAGTACAGCTGTTTTCTCTCCCTCTGTGTACTCCCTTAAATCACCCCAACCTTGGCC
 AGGCATGGTGGCTCACACCTGTAATCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCAC
 CTGAGGTCCGAGTTTCAGACAGCCTGGCCAATGTGGTGAAACCTGTCTCTACTAAAA
 ATACAAAAATTAGCCAGGTGTGATGGTGGGTGCTGTAAATCCAGTTACTTGGGAGGCTG
 AGGCAGGAGAATCGCTTGAACTGGGAGGTGGAGGTTGCAGTGAGCTGTGATTGTGCCAC
 TGTACTCCAGCCTGGGTGACAGAGCGAGACTCTGTCTCAAAAAACAAAAACAAAAACA
 CCAAAAAACCCCCAACCTGAAGAAATTGAGATACAGTGTGTAATGTTAGTGATGTGA

FIGURE 1 (CONT'D)

GAACAAGGAGCAGGGGTGCATTTGTGTTGTGTTTCGGGTGGGGATGGGTTTAGGAGCTCC
 AGGTTGGGAGCAGTGACAGAGAGTCATGGCCGTGGTGAGGGTGAATCCCAAGTGGATGGC
 TCAGGACGGGTATGGAAACCCTTCATTCCTCATAGGTACTGGGAAGTCCATTTGCAAGCT
 GAGCGCCAGGCCTGGGGAGGAAGAGGCTTGGGCTGCAGATGCACGCACATTTGTTTTTCA
 CTGATAGTTTTTACAAAAAGCTTGGTTTAAAGTTATGGAGTTTTATGTCCCTGGGAGTAGA
 ATTTACATTTGTTAAATTGACCACTGTTTAAAGATCAGTATACATTCTCTAGTCTGTGATG
 TCTGGAGCTAGTTTTGAGGGTGAACCACACTTTATCCAACATACAACTTTCCCATGCAG
 CTTCTCTGGTGCGCAGTTGGTTTTGACCGTGGGACTAGGTGCTTCTGCAGGTTTTAAGTA
 ATTAACTTAAAGCTTCTCCTCTGAGAAACATTTCTGTTGCGCTACTGACTCTCCTTCTC
 CACATTTGTTGTGTTCTAGGGCTTCTCTATAGTGCACATTAGGACGTTTCATTTGTTGC
 TGAATGCTTTCCAGAATTATTTATTCATAGGGTTTCTCTCCTGTGCAGCTCTCTCATGG
 GTAATGGGGCGTGTTTTCTTGCCAAAGGCGGTTCCACCCTCGTGATTGTATAGGGCTCTT
 CTCCTGTATGAACTCTGAGATCAGTGAGCTCTGATCTCCAAGGGAAAGTTTTCTGCATT
 TGCTGTTTTCTCATGTCTCTCCAGTGTGAATTCTTTGGCTTCTAGCTGAAAACTTTTCC
 ACAGTTTTACATTATGTGGTTTTCTCCTGTGAACTCTGTGATTGAGAATCAGAAGCA
 GTTCTTAGTAGAGGCATTTCTACACTGATTGCACTGAGGATTTCTCCCAGTGTGAAGTT
 TCTGGCATAGAGTCTGGCTTCCCGCAGACGACTTTCACACTCTGCCATGTTTATGCCTG
 TGGGCCTCTCTGGCAGGAACTCTGATGCACCGCAGGCCCATGTACTCCTGTGGCTTTCT
 CACATTCGGTCTACTTGCAGGGTATCTCCACAGCATGCACCATTCTGGGTACAGGGGGAC
 ATCCTCTGTTACTGAAGATGTTGTATATTTAGTACCTTCAAGAGTTTCTCTCCTTCCA
 GAATTTTCTGATGTACACAAATAACTGACTTCCACAAGAGGGCTTTTCCACACTCGGTGT
 GTGCATACAGTTTCTGCCTGTGATCATTTCTTTATGTTATTATTTTATTTTTTTCGAGATA
 GGGTCTTGCTCAATTTCTTAGGCTGGAGTGCAGTGGCACGATCATAGCTCACTGAAGTTT
 CGACCTGGGCTCAAGCAATCCTCCCGCTTCAGCCTCCTGAGTAGCTGGTGCACACGACCA
 TACCCAGCTAATGTTTTATTTTTTGTAGAGACGAGGTCTCACTATGTTGCCAGGCTGGT
 CTCGAACCTTCTGAGCTCGAGCGATCCTCCTGCCTCCACCTCCCAAAGTGTTTCGGATTACA
 AACGTGAGCCATCGCACCTAGCCTCTTTGATCATTTCTGTGGTGTTCAGTGGAGGTTGAC
 AGCTCCCTAAAGATTTTCTGTTTTTTTTGTCATGCATGGGTTTGAATTCTTTGAGGTCCAA
 TTTATTTGGACCCCTGAATAAAGTTTTGTGGGTTTTCTTCTATGTGTGGAATTTATAAGG
 CATTCTTCCAGTGTGGTTTTCTTATGTGAGTGAGAGCTGACCTGCACCGAAGGTTTTTG
 TCCCATTTGTTGCCCTTGAATTATTTGTATGAATTATATGTTCCAGTGAAAATGGAGTTC
 TGGGTTGGAGGCTTATTCATGTTTACACAATTAAAATTGCAGTGTTCCTCTCTGGGATG
 AGAGCTCTAAAGCAGAGTAAGATTACGTTCTGATGTAAGCTTTAACCACCTATTTATAAG
 GTCTCACCTGTGGTCCACTGTGTTGAGACTTCTACAGAAGAGCTTCTGTATAGTAACCAT
 TTTCTTAGGCTGTCTCACTTGTGTGAATCTTCTGACACATTTATTATAGCTTTGTCCCAT
 TTCTTATCCTTTTTGCTCTTTAGAAATTTCCCTTTAATTTATTACATTATTGCTTACTG
 TAAAGAGTCCAGGTAACCTGACTTTATTAGTTACTTCTGTTCAATAAATTTAACTTTTCC
 CC

Gene 287. >ENST00000315475 cDNA sequence

GGTCCCGGGGCGCGTCCGCGAGCGGCCTGGACTGCCGAGACCCGCGGGAGGGAGCGCC
 TCGCCAGACCCACCGTGTCCCACTCTGCTCTCCCTGGGCAGGAAGACTGAGGAGGAAGG
 GATGGCTGTGGATCTGCTGTCTGCTCAGGAGCCTGTGACATTGAGGATGTGGCCGTGTT
 CTTGAGCCAGGACGAGTGGTTGCACCTGGACTCTGCCAGAGGGCCTTGTAACCGGGAGGT
 GATGCTGGAGAACTACAGCAGCCTGGTCTCACTGGGGATTCCATTTTCAATGCCAAAGTT
 GATTATCAGTTGCAGCAAGGAGAAGATCCCTGCATGGTGGAAAGAGAAGTCCCTTCAGA
 TACCCGTCTAGGTTTCAAGACTTGGCTTGAAACAGAAGCATTGCCTCATAGACAGGACAT
 TTTTATAGAAGAAACATCTCAGGGAATGGTAAAGAAAGAATCATTAAAGGATGGTCACTG
 GGACATTAACTTTGAAGAAGCTGTGGAATTTGAGAGCGAGATAGAAGAAGAGCAAGAGAA
 GAAACCTCTTAGACAAATGATAGATTTCGCATGAGAAAACCATCAGTGAAGATGGAAACCA
 TACAAGTCTTGAATTGGGGAAAAGCTTATTTACAAATACAGCTCTTGTACACAACAGAG
 TGTTCTATAGAAAGGATACCCAATATGTATTATACATTTGGGAAAGATTTTAAACAGAA
 TTTTGATCTCATGAAATGCTTCCAGATTTACCCAGGAGGAAAACCTCACATCTGTAATGA
 ATGTGGGAAGAGCTTCAAGCAGAATCTGCATCTTATTGAACATCAGAGAATTCATACAGG
 TGAGAAACCCTACAAATGTAATGAGTGTGAAAAAACCTTCAGCCACAGATCATCCCTTCT

FIGURE 1 (CONT'D)

TTCTCATCAGAGAATTCTACTGGAGAGAAACCTTACAAGTGTAAATGAATGTGAGAAGGC
 ATTTAGCAACAGTTCAACCTTATCAAACATCTGAGAGTGCATACTGGAGAGAAACCGTA
 TCGATGTAGGGAATGTGGTAAAGCCTTTAGCCAGTGTTCACCCCTCACTGTACATCAGAG
 AATTCATACTGGAGAGAACTCTATAAATGCGGCGAATGTGAGAAGGCCTTCAACTGTAG
 AGCAAACTTTCACAGGCATCAAAGAATCCATACAGGTGAGAAACCTATAAATGTAGTGA
 GTGTGGGAAGGGATACAGCCAGTTTACATCTCTAGCTGAACATCAGAGGTTTCATACTGG
 AGAACAACTGTATACATGCTTGAATGTGGGAGAACCTTCACACGTATTGTAACCTTAT
 CGAACATCAGCGAATTCACACTGGACAAAACCTTATCAGTGCAACGAATGTGAGAAAGC
 CTTCAACCAGTATTTCCTTTAATGAACATCGGAAAATTCTATACTGGGGAAAACTTTA
 TACATGTGAGGAATGTGGGAAAGCCTTTGGTTGCAAATCTAACCTTTATAGGCATCAGAG
 AATTCATACTGGAGAGAAACCGTATCAGTGTAAATCAGTGTGGAAAGGCCTTCAGCCAGTA
 TTCATTTTTAACCAGCATGAGAGGATCCACACTGGAGAGAACTGTATAAATGTATGGA
 ATGTGGGAAAGCCTACAGTTACAGATCAAACCTTTGTAGACACAAAAAGTTTACACGAA
 AGAGAACTCTATAAGTGAAGGAATATGGGAAACCTTTCATCTGCAGCTCCTCACTTAC
 CCAGTATCAGAGATTTTTTAAAGGAGATAAAGCCTATGAGGTTTAGTTTCATCTCTCAAAT
 AATCCAAGACTTCTCACTGGGGAATAAGGGAATAATAAATAGGGTACAAACTCCTAATAG
 ATTTGTCTTTTTTACTTCTCCTGAAGGAAATATGTTAGTTGCCACTAAGTCATGATAAAA
 TTGATCAGTGAGACTATGAAGAGCACTGACTTGTTAAATTTTTAAAGAACCATAAATTCT
 AAGGTATCTAAAAACCTATGAGTATTTAATTATAGAAAAAATGTAAAAGGTCTTTTTAA
 AAATCATGAAAAATAGTTGAATATACATTTTGTCTCTCATAAGACCATATTCCCTTTA
 AAAGAGTAAGCTTCAATATGTGAATTTTCTTTTAAAAACAGTCACTGAGTTAATAATGTA
 AATAAGTGTGTGGCCTTCTTTAAATAGCTGGCTAACATAGGAGGCACTTCTTTTCATAA
 AGAGAAGCTAAACATAAAAAGGAATTTTAAATTTAACTCTTCAATGGAAATAATAAAGC
 TCTTTATATGAGCTGTCCACCAGCAACTTATATATGTAAACATACATATATACACATAT
 GCATGTGTGTGTGTAAACATAAAAGTCCTTTATTATT

Gene 288. >ENST00000261948 cDNA sequence

CTCTACCGGTGAGGGTTTTCGGGGGAAGATGGAGTATCCCGCGCCGGCCACGGTGCAGGCC
 GCGGACGGCGGAGCGGCCTTACAGCAGCTCGGAGTTGCTGGAGGGCCAGGAGCCG
 GACGGGGTGCGCTTTGACCGCGAGAGGGCGCGCCGCTGTGGGAAGCCGTGTCCGGTGCC
 CAGCCGGTGGGTAGAGAGGAAGTGGAGCACATGATCCAGAAGAACCAATGTCTCTTCACC
 AACACCCAGTGTAAGGTTTGTGCGCCTTGCTTATTTCTGAGTCCAGAAGCTGGCACAT
 TACCAGAGCAAAAAACATGCCAACAAAGTGAAGAGATACCTAGCAATCATGGAATGGAG
 ACATTAAAGGGGGAAACGAAGAAGCTAGACTCAGATCAGAAGAGCAGCAGAAGCAAGAC
 AAGAACCAGTGCTGCCCATCTGTAACATGACCTTTTCTCCCTGTGCTGGCCAGTCG
 CACTACCTGGGGAAGACCCACGCAAGAAGCTTAAAGCTGAAGCAGCAGTCCACTAAGGTG
 GAAGCCTTGCACCAGAATAGAGAGATGATAGACCCAGACAAGTTCTGCAGCCTCTGCCAT
 GCAACTTTCAACGACCTGTGCTGCTCAACAACATTATGTGGGCAAGAAACACAGAAAA
 CAGGAGACCAAGCTCAAATAATGGCAGCTATGGGCGGCTGGCGGACCTGTGCTCACT
 GACTTTCCAGCTGGAAAGGGCTACCCCTGCAAAACATGTAAGATAGTGCTGAACTCCATA
 GAACAGTACCAAGCTCATGTGAGCGGCTTCAAACACAAGAACCAGTCACCAAAAAACAGTG
 GCATCATCCCTGGGCCAGATTCCAATGCAAAGGCAACCCATTAGAAAGACTCAACCACC
 TTGGAAGACTAG

Gene 289. >ENST00000274827 cDNA sequence

CGGACGCGCGCGCCCTCCCCCTCCCCCGCGCTCCCAACGTGTGGCGGCTCGCGACCCC
 CGGCAACCCGGAGAAGGTCTACAGAGCGGCCTGCGCCAGCGAACAAAAGGATGCCACGGA
 GAAAGAAAAAAGTTAAAGAAGTCTCGAATCTCGGAACCTGGAGAAGAAGGATGTGAAA
 CTACCAGTTCTGTCAAGTGTGAAGAGGAAGCGTAGACTTGAGGATGCATTTCATTGTGATAT
 CCGATAGTGATGGAGAGGAACCAAAGGAGGAAAATGGGTTGCAGAAAAACGAAGACAAAAC
 AGTCGAATAGAGCAAAGTGTGTTGGCCAAAAGAAAAATCGCACAGATGACAGAAGAAGAAC
 AGTTTGCTCTGGCTCTCAAAATGAGTGAGCAGGAAGCTAGGGAGGTGAACAGCCAGGAGG
 AGGAAGAAGAGGAGCTCTTGAGGAAAGCCATTGCTGAAAGCCTGAATAGTTGCCGGCCTT
 CTGATGCTTCCGCTACCAGATCTCGACCTCTGGCCACTGGACCGTCTTCCAGTCCCATC
 AAGAGAAAACACAGACTCTGGGCTCACTGAAGGCATGTCTCCCTGCATATGGCAGCTGG
 TACCTCCATCACTGTTTAAAGGCTCACATATCAGTCAGGGAAACGAGGCTGAGGAAAGAG

FIGURE 1 (CONT'D)

AGGAGCCTTGGGACCA CACTGAAAAA ACTGAAGAGGAGCCGGTCTCTGGCAGCTCAGGAA
GCTGGGACCAAGTCAAGCCAGCCAGTGTGTTGAGAATGTGAACGTTAAATCTTTTGACAGAT
GTACTGGCCACTCGGCTGAGCACA CAGTGTGGGAAGCCACAGGAAAGTACTGGGAGGG
GTTCTGCTTTTCTCAAAGCTGTCCAGGGTAGCGGGGACACATCTAGGCACTGTCTACCTA
CCCTAGCAGATGCCAAAGGTCTCCAGGACACTGGGGGCACTGTGAACTATTTCTGGGGTA
TTCATTCTGCCCTGATGGAGTAGACCCTAACCAGTATACCAAGGTCAATTCTCTGCAGT
TGGAGGTTTATCAAAAGAGCCTGAAAATGGCTCAGAGGCAGCTCCTTAATAAAAAAGGTT
TTGGGGAACCAAGTGTACCTAGACCTCCTTCTCTGATCCAGAATGAATGTGGCCAAGGAG
AGCAGGCTAGTGAGAAAAATGAATGCATCTCAGAAGATATGGGAGATGAAGACAAAGAGG
AGAGGCAGGAGTCTAGGGCATCTGACTGGCACTCAAAAACCAAGGATTTCCAGGAAAGCT
CAATTAAAAGCTTGAAAGAGAACTTTTGTGGAGGAAGAACCAACAACCAAGTCATGGTC
AGTCTTCCCAAGGGATTGTTGAAGAACTTCTGAAGAGGGAACTCTGTACCTGCTTCAC
AAAGTGTTGCTGCTTTGACCAGTAAGAGAAGCTTAGTCCTTATGCCAGAGAGTTCTGCAG
AAGAAATCACTGTTTGTCTGAGACCCAGCTAAGTTCCTCTGAACTTTTGACCTTGAAA
GAGAAGTCTCTCCAGGTAGCAGAGATATCTTGGATGGAGTCAGAATAATAATGGCAGATA
AGGAGGTTGGTAAACAAGGAAGATGCTGAGAAGGAAGTAGCTATTTCTACCTTCTCATCCA
GTAAACCAAGTATCCTGCCCCTATGTGACCAATGCTTTCCACCCACAAAGATTGAACGAC
ATGCCATGTACTGCAATGGTCTGATGGAGGAAGATACAGTATTGACTCGGAGACAAAAAG
AGGCCAAGACCAAGAGTGACAGTGGGACAGCTGCCAGACTTCTCTAGACATTGACAAGA
ATGAGAAGTGTTACCTCTGTAAATCCCTGGTCCATTTAGAGAGTATCAGTGTCTGTGG
ACTCCTGTCTCCAGCTTGCAAAGGCTGACCAAGGAGATGGACCTGAAGGGAGTGGAAGAG
CATGTTCAACTGTGGAGGGGAAGTGGCAGCAGAGGCTGAAGAACC CAAAGGAAAAAGGCC
ACAGTGAAGGCCGACTCCTTAGTTTTCTTGGAACAGTCTGAGCACAAGACTTCAGATGCAG
ACATCAAGTCTTCAGAAACAGGAGCCTTCAGGGTGCCTTCACCAGGGATGGAAGAGGCAG
GCTGCAGCAGAGAGATGCAGAGTTCTTTTACACGTCGTGACTTAAATGAATCTCCCGTCA
AGTCTTTTGTTCATTTT CAGAAAGC CACAGATTGCTTAGTGGACTTTAAAAAGCAAGTTA
CTGTCCAGCCAGGTAGTCGGACACGGACCAAAGCTGGCAGAGGAAGAAGGAGAAAATTCT
GAATTTCTAGGGTCCAAAAGTTGACAAAAC CATTAGTAGGAGGGGTGGGCCATGTTCAAT
AAGCCATAGTGGTCCCTAGTTCAATTGTTGAGCAAGTTTTAGCCCTGCAGTTTTTACCACC
AGCACCTACC CAGCATTCTGGTTTTTATGTTTTTATGATCTATGCAGACAACCTGTGTAT
TCTGTTTTATAACAGTTTTGTTTGAATTTACTTACAGTTAAAAAATTTAAATAT

Gene 290. >ENST00000323774 cDNA sequence

ATGCTTCCGCTACCAGATCTCGACCTCTGGCCACTGGACCGTCTTCCCAGTCCCATCAAG
AGAAAACCACAGACTCTGGGCTCACTGAAGGCATGTCTCCCTTCTTCCCAAGGGATTGTT
GAAGAACTTCTGAAGAGGGAACTCTGTACCTGCTTCACAAAGTGTTGCTGCTTTGACC
AGTAAGAGAAGCTTAGTCCTTATGCCAGAGAGTTCTGCAGAAGAAATCACTGTTTGTCTT
GAGACCCAGCTAAGTTCCTCTGAACTTTTGACCTTGAAAGAGAAGTCTCTCCAGGTAGC
AGAGATATCTTGGATGGAGTCAGAATAATAATGGCAGATAAGGAGGTTGGTAAACAAGGAA
GATGCTGAGAAGGAAGTAGCTATTTCTACCTTCTCATCCAGTAACCAAGGTATCCTGCCC
CTATGTGACCAATGCTTTCCACC CACAAAGATTGAACGACATGCCATGTACTGCAATGGT
CTGATGGAGGAAGATACAGTATTGACTCGGAGACAAAAAGAGGCCAAGACCAAGAGTGAC
AGTGGGACAGCTGCCAGACTTCTCTAGACATTGACAAGAATGAGAAGTGTTACCTCTGT
AAATCCCTGGTCCCATTTAGAGAGTATCAGTGTCTGTGGACTCCTGTCTCCAGCTTGCA
AAGGCTGACCAAGGAGATGGACCTGAAGGGAGTGGAAGAGCATGTTCAACTGTGGAGGGG
AAGTGGCAGCAGAGGCTGAAGAACC CAAAGGAAAAAGGCCACAGTGAAGGCCGACTCCTT
AGTTTCTTGGAACAGTCTGAGCACAAGACTTCAGATGCAGACATCAAGTCTTCAGAAACA
GGAGCCTTCAGGGTGCCTTCACCAGGGATGGAAGAGGCAGGCTGCAGCAGAGAGATGCAG
AGTTCTTTTACACGTCGTGACTTAAATGAATCTCCCGTCAAGTCTTTTGTTCATTTCA
GAAGCCACAGATTGCTTAGTGGACTTTAAAAAGCAAGTTACTGTCCAGCCAGGTAGTCGG
ACACGGACCAAAGCTGGCAGAGGAAGAAGGAGAAAATTCTGAATTTCTAGGGTCCAAAAG
TTGACAAAAC CATTAGTAGGAGGGGTGGGCCATGTTCAATTAAGCCATAGTGGTCCCTAGT
TCATGTGTTGAGCAAGTTTTAGCCCTGCAGTTTTTACCACCAGCACCTACC CAGCATTCTG
GTTTTTATGTTTTTATGATCTATGCAGACAACCTGTGTATTCTGTTTTATAACAGTTTGT
TTGAATTTACTTACAGTTAAAAAATTTAAATAT

FIGURE 1 (CONT'D)

Gene 291. >ENST00000253490 cDNA sequence

```
ACTGTGACCTGTTGCTGAGGTGATCTGATGATATAGGTCTTGCCTTTCATTTTAACTGCC
ATTCTGGCAACTGAACGTTGGCAGTAAACGCAGCTTAGTTGTCTCAGAGGACTCACAAATG
GGATGTGCTTATAGTTGTTGCTCGAAGTGTGTTGTGGCGAGGATGAAATAGTGTATCCT
AGGATGCCAGGGGAATCCACCGTCTGCCACCGCGAGCGTGAGAAGCCAATCACCTATCAC
TGGTATCACTGGCATCCCGGCCATATATACCCTAGAGTTGCATCAATGGAAGATTACGAT
GAGGACCTGGTGAGGAAGCTTCATCTGAAGATGTCCTGGGCGTTTATATGGTGGACAAA
GACACAGAGAGAGACATTGAGATGAAACGGCAACTACGGCGACTACGGGAGCTCCACCTA
TACAGCACATGGAAGAAGTACCAAGAGGCGATGAAGACATCCTTGGGAGTTCCACAATGT
GAGCGTGACGAAGGCTCCTTGGGCAAGCCATTGTGTCCACCCGAGATACTCTCGGAGACG
TTGCCAGGCTCTGTGAAGAAAAGGGTATGCTTTCCATCAGAAGATCATCTAGAGGAGTTT
ATAGCAGAACATCTCCCTGAAGCATCCAATCAGAGTCTCCTCACTGTTGCCCATGCAGAC
ACAGGCATCCAAACCAACGGTGACCTGGAAGACCTGGAGGAGCATGGGCCAGGGCAGACA
GTCTCTGAGGAAGCCACAGAAGTTCACATGATGGAGGGGGACCCAGACACACTGGCCGAA
CTTCTGATCAGGGATGTACTTCAGGAGCTGTCCAGTTACAACGGCGAGGAGGAGGCCA
GAGGAGGTGAAGACATCCTTGGGAGTTCCACAACGTGGTGACCTGGAAGACCTGGAGGAG
CATGTGCCAGGGCAGACAGTCTCTGAGGAAGCCACAGGGGTTTACATGATGCAGGTGGAC
CCAGCCACGCCGGCAAAGAGTGACCTGGAAGACCTGGAGGAGCATGTGCCAGGGCAGACA
GTCTCTGAGGAAGCCACAGGGGTTTACATGATGCAGGTGGACCCAGCCACACTGGCAAAG
CGTACGTATTCTGGGATCATCTCTTTGTTTAGGTGTGAAATCTTAGTGTTGTAAAGGTAG
TGCTGCTTTCACCTGCTTTTGCTCAAGGGCCACTCTGGTTTGTAGCTTTCTGCCAGAAATGA
GATTTGGGAATTTTGGTTTAAAACTACTAAGAGTCACACCGGGCACAGTGGCTCACGCC
TGTAATCCCGACACCTTGAGAGGCGGAGACGGGCGGATCAGCAGAGGTCAGGAGTTTGTAG
ACCAGCCTGACTGACATTGAGAAACCCACCGCTCCTAAAAATACAAAATTACCTGGGTG
TGGTGTTCATGCCTGCAATCCAGCTACTCAGGAGGCCAAGGCAGGAGAATCACTTGAA
CCGAGGTGGTAGAGGTTGAGGTGAGCCAAGGTTGTGCCATTGCACTCCAGCCTGGGCAAC
GAGCGAAACTCCGTCTC
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Gene 292. >ENST00000331171 cDNA sequence

```
AAAGAGAATGAGACAGGAGTTGGCGAGTTCTCTTGCTCAGCATCACCAAGTGAAGTCAAGAG
AAGCAGCAGGCCCTCTTCTGGCTCTTCTGTGTATGCACTTAGTCACTGAGGCTGGAAAC
ACACCCATCATCCTGGGCATCGGCTCCAACCTCGCCTGCACACCCCCACGTACTTCTTC
ACCCATCTCTCCTTTGTCAACATCTGCTTCATCACCAACCTGATCCCAAGCTCCTGGTC
AACCATTGCCTGACTCAGATGTACTTCTCTCATCTCCTTTGCCAACGTGGACACCTTTCTG
CTGGCCATCATGGCACTGGACCACTATGTGGCCATCTGCAGCGCCCTGCGGTACTGCTCC
ATCATCACCCCCGGCTCTGTGAGGGGCTGGCCCTCATCTCCCTGGTCCACACGGTCATC
ATGAGCAGACTGGCCTTCTGCTCCTCCGCCCAGATTTTCACTTTCTACTGTGACGCCTAC
CTGCTCATGAAGATTGCCTGCTCACATACAAATCAGCATGTGTTTCTGGGGGCGGTGGTC
CTGTTCTGGCTCCCTGTGCGCTCATCTTGGTCTCCTACATCCGATTGCTGCAGCCATC
CTCCGGATTCCCTCTCCTACAAGAAGGCGCAAGGCATGTTCCATATGTAGCTCCACCTG
TCTCTGGTCACCCTGTTCTATGGAAGTGTCTGGGGATCTGCATAGACCCCCAGACTCCT
TCTCAGCCCGACACCATAGCAACCATCATGTACACTGTGGTGACCTCTATGCTAAACCCC
TTCATCTACAGTCTGATGAACAAGGAGGTCCAGGAGGCCGTGAGAAGGCTCTTCAGTAGG
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Gene 293. >ENST00000333723 cDNA sequence

```
AAAGAGAATGAGACAGGAGTTGGCGAGTTCTCTTGCTCAGCATCACCAAGTGAAGTCAAGAG
AAGCAGCAGGCCCTCTTCTGGCTCTTCTGTGTATGCACTTAGTCACTGAGGCTGGAAAC
ACACCCATCATCCTGGGCATCGGCTCCAACCTCGCCTGCACACCCCCACGTACTTCTTC
ACCCATCTCTCCTTTGTCAACATCTGCTTCATCACCAACCTGATCCCAAGCTCCTGGTC
AACCATTGCCTGACTCAGATGTACTTCTCTCATCTCCTTTGCCAACGTGGACACCTTTCTG
CTGGCCATCATGGCACTGGACCACTATGTGGCCATCTGCAGCGCCCTGCGGTACTGCTCC
ATCATCACCCCCGGCTCTGTGAGGGGCTGGCCCTCATCTCCCTGGTCCACACGGTCATC
ATGAGCAGACTGGCCTTCTGCTCCTCCGCCCAGATTTTCACTTTCTACTGTGACGCCTAC
CTGCTCATGAAGATTGCCTGCTCAATACATGTCAATCAGCATGTGTTTCTGGGGGCGGTG
GTCTGTCTCCTGGCTCCCTGTGCGCTCATCTTGGTCTCCTACATCCGATTGCTGCAGCC
ATCCTCCGATTCCCTCTCCTACAAGAAGGCGCAAGGCATGTTCCATATGTAGCTCCAC
```

FIGURE 1 (CONT'D)

CTGTCTCTGGTCACCTGTTCTATGGAAGTGTCTCTGGGGATCTATCCAGACTCCTTCTCA
GCCCAGGACACCATAGCAACCATCATGTACACTGTGGTGACCTCTATGCTAAACCCCTTC
ATCTACAGTCTGATGAACAAGGAGGTCCAGGAGGCCGTGAGAAGGCTCTTCAGTAGGGC
TCACACTCATCA

Gene 294. >ENST00000330220 cDNA sequence

AATGAGACAGGAGTTGGCGAGTTCTCTTGCTCAGCATCACCACTGACTCAGAGAAGCAG
CAGGCCCTCTTCTGGCTCTTCTGTGTATGCACCTTAGTCACTGAGGCTGGAAACACACCC
ATCATCCTGGGCATCGGCTCCAACCTCGCCTGCACACCCACGTAATCTTCAACCAT
CTCTCCTTTGTCAACATCTGCTTCATCACCAACCTGATCCCAAGCTCCTGGTCAACCAT
TGCCTGACTCAGATGTACTTCTCATCTCCTTTGCCAACGTGGACACCTTTCTGCTGGCC
ATCATGGCACTGGACCACTATGTGGCCATCTGCAGCGCCCTGCGGTACTGCTCCATCATC
ACCCCCGGCTCTGTGAGGGGCTGGCCCTCATCTCCTGGTCCACACGGTCATCATGAGC
AGACTGGCCTTCTGCTCCTCCGCCAGATTTCACTTCTACTGTGACGCCTACCTGCTC
ATGAAGATTGCCTGCTCACATACATGTGAGCATGTGTTCTGGGGGCCGTGGTCTGTTC
CTGGCTCCCTGTGCGCTCATCTTGGTCTCTACATCCGCATTGCTGCAGCCATCCTCCGG
ATTCCTCTCCTACAAGAAGGCGCAAGGCATGTTCCATATGTAGCTCCACCTGTCTCTG
GTCACCTGTTCTATGGAAGTGTCTCTGGGGATCTGCATAGACCCAGACTCCTTCTCAGCC
CAGGACACCATAGCAACCATCATGTACACTGTGGTGACCTCTATGCTAAACCCCTTCATC
TACAGTCTGATGAACAAGGAGGTCCAGGAGGCCGTGAGAAGGCTCTTCAGTAGG

Gene 295. >ENST00000319449 cDNA sequence

ATGATGGAGGAGCGTGCCAACCTGATGCACATGATGAAACTCAGCATCAAGGTGTTGCTC
CAGTCGGCTCTGAGCCTGGGCCGAGCCTGGATGCGGACCATGCCCCCTTGCAGCAGTTC
TTTGTAGTGATGGAGCACTGCCTCAAACATGGGCTGAAAGTTAAGAAGAGTTTTATTGGC
CAAAATAAATCATTCTTTGGTCCTTTGGAGCTGGTGGAGAACTTTGTCCAGAAGCATCA
GATATAGCGACTAGTGTGAGAAATCTTCCAGAATTAAAGACAGCTGTGGGAAGAGGCCGA
GCGTGGCTTTATCTTGCACTCATGCAAAAGAACTGGCAGATTATCTGAAAGTGCTTATA
GACAATAAACATCTCTTAAGCGAGTTCTATGAGCCTGAGGCTTTAATGATGGAGGAAGAA
GGGATGGTGATTGTTGGTCTGCTGGTGGGACTCAATGTTCTCGATGCCAATCTCTGCTTG
AAAGGAGAAGACTTGGATTCTCAGGTTGGAGTAATAGATTTTTCCCTCTACCTTAAGGAT
GTGCAGGATCTTGATGGTGGCAAGGAGCATGAAAGAATTACTGATGTCCTTGATCAAAAA
AATTATGTGGAAGAACTTAACCGGCACCTTGAGCTGCACAGTTGGGGATCTTCAAACCAAG
ATAGATGGCTTGGAAGAACTAACTCAAAGCTTCAAGAAGAGCTTTTCAAGCTGCAACAGAC
CGAATTTGCTCACTTCAAGAAGAACAGCAGCAGTTAAGAGAACAAAATGAATTAATTGGA
GAAAGAAGTGAAAGAGTGTAGAGATAACAAAACAGGATACCAAAGTTGAGCTGGAGACT
TACAAGCAAACTCGGCAAGGTCTGGATGAAATGTACAGTGATGTGTGGAAGCAGCTAAAA
GAGGAGAAGAAAGTCCGGTTGAGAGGAAAACAAAGGCATGAACCATTGATACACATGGAA
ACTTGGATTGATCTCCAAGACATTATTCTGAGAAAAAGTCAGTCTCAAGGTTATATAATG
TATAATTACATTGAGATTACATTCTCAAAAAGCCAAAGCCATATTGTTGCAGGACAGATG
AGTGGTTGCCAGGGGCTGAGCAAAAGTCATCCTTTCTTACAAAGATTTGCTTCATTTGC
ACTCTTGCTGGTGTGCGATCCAGGTTGCAGCACTCGGAGCGGGCGAGGCAGGGGGCTGAG
GAGCGGAGCCACAAGCTGCAGCAGGAGCTGGGCGGGAGGATCGGCGCCCTGCAGCTGCAG
CTCTCCAGCTGCACGAGCAATGCTCAAGCCTGGAGAAAGAATTGAAATCAGAAAAAGAG
CAAAGACAGGCTCTTCAGCGCGAATTACAGCACGAGAAAGACACTTCCTCTCTACTCAGG
ATGGAGCTGCAACAAGTGGAAGGACTGAAAAAGGAGTTGCGGGAGCTTCAGGACGAGAAG
GCAGAGCTGCAGAAGATCTGCGAGGAGCAGGAACAAGCCCTCCAGGAAATGGGCCTGCAC
CTCAGCCAGTCCAAGCTGAAGATGGAAGATATAAAGAAGTGAACCAGGCACTGAAGGGC
CACGCCTGGCTGAAAGATGACGAAGCGACACACTGTAGGCAGTGTGAGAAGGAGTTCTCC
ATTTCCCGGAGAAAGCACCACTGCCGGAAGTGTGGCCACATCTTCTGCAACACCTGCTCC
AGCAACGAGCTGGCCCTGCCCTCCTACCCCAAGCCGGTGCAGAGTGTGCGACAGCTGCCAC
ACCCTGCTCCTGCAGCGCTGCTCCTCCACGGCCTCCTGA

Gene 296. >ENST00000333864 cDNA sequence

ATGGATGGAGAGAATCACTCAGTGGTATCTGAGTTTTTGTCTTCTGGGACTCACTCATTCA
TGGGAGATCCAGCTCCTCCTCCTAGTGTTTTCTCTGTGCTCTATGTGGCAAGCATTACT
GGAAACATCCTCATTGTGTTTTCTGTGACCACTGACCCTCACTTACACTCCCCCATGTAC

FIGURE 1 (CONT'D)

TTTCTACTGGCCAGTCTCTCCTTCATTGACTTAGGAGCCTGCTCTGTCACTTCTCCCAAG
ATGATTTTATGACCTGTTTCAGAAAGCGCAAAGTCATCTCCTTTGGAGGCTGCATCGCTCAA
ATCTTCTTCATCCACGTCGTTGGTGGTGTGGAGATGGTGTGCTCATAGCCATGGCCTTT
GACAGATATGTGGCCCTATGTAAGCCCCTCCACTATCTGACCATTATGAGCCCAAGAATG
TGCCTTTTCATTTCTGGCTGTTGCCTGGACCCTTGGTGTCACTCACTCCCTGTTCCAACCTG
GCATTTCTTGTTAATTTAGCCTTCTGTGGCCCTAATGTGTTGGACAGCTTCTACTGTGAC
CTTCCTCGGCTTCTCAGACTAGCCTGTACCGACACCTACAGATTGCAGTTCATGGTCACT
GTTAACAGTGGGTTTATCTGTGTGGGTACTTTCTTCATACTTCTAATCTCCTACGTCTTC
ATCCTGTTTACTGTTTGGAAACATTCTCAGGTGGTTCATCCAAGGCCCTTTCCACTCTT
TCAGCTCACAGCACAGTGGTCCTTTTGTCTTTGGTCCACCCATGTTTGTGTATACACGG
CCACACCCTAATTACAGATGGACAAGTTTCTGGCTATTTTGTATGCAGTTCCTACTCCT
TTTCTGAATCCAGTTGTCTATACATTAGGAATAAGGAGATGAAGGCAGCAATAAAGAGA
GTATGCAAACAGCTAGTGATTTACAAGAGGATCTCATAA

Gene 297. >ENST00000326748 cDNA sequence

TTTCGTCTTAGCCACGCAGAAAGTCGCGTGTCTAGGTGAGTCGCGGTGGGTCTCGCTTGC
AGTTTCAGCGACCACGTTTGTTCGACGCCGGACCGCGTAAGAGACGATGATGTTGGGCAC
GGAAGGTGGAGAGGGATTCTGTGGTGAAGGTCCGGGGCTTGCCCTGGTCTTGCTCGGCCGA
TGAAGTGCAGAGGTTTTTTTTCTGACTGCAAAATTCAAAATGGGGCTCAAGGTATTCGTTT
CATCTACACCAGAGAAGGCAGACCAAGTGGCGAGGCTTTTGTGAACTTGAATCAGAAGA
TGAAGTCAAATTGGCCCTGAAAAAAGACAGAGAACTATGGGACACAGATATGTTGAAGT
ATTCAAGTCAAACAACGTTGAAATGGATTGGGTGTTGAAGCATACTGGTCCAAATAGTCC
TGACACGGCCAATGATGGCTTTGTACGGCTTAGAGGACTTCCCTTTGGATGTAGCAAGGA
AGAAATTGTTTCACTTCTCAGGGTTGGAAATCGTGCCAAATGGGATAACATTGCCGGT
GGACTTCCAGGGGAGGAGTACGGGGGAGGCCTTCGTGCAGTTTGCTTACAGGAAATAGC
TGAAAAGGCTCTAAAGAAACACAAGGAAAGAATAGGGCACAGGTATATTGAAATCTTTAA
GAGCAGTAGAGCTGAAGTTAGAACTCATTATGATCCACCACGAAAGCTTATGGCCATGCA
GCGGCCAGGTCTTATGACAGACCTGGGGCTGGTAGAGGGTATAACAGCATTGGCAGAGG
AGCTGGCTTTGAGAGGATGAGGCGTGGTGTCTATGGTGGAGGCTATGGAGGCTATGATGA
TTACAATGGCTATAATGATGGCTATGGATTTGGGTGAGATAGATTTGGAAGAGACCTCAA
TTACTGTTTTTTCAGGAATGTCTGATCACAGATACGGGGATGGTGGCTCTACTTTCCAGAG
CACAAACAGGACACTGTGTACACATGCGGGGATTACCTTACAGAGCTACTGAGAATGACAT
TTATAATTTTTTTTTTCAACCGCTCAACCCCTGTGAGAGTACACATTGAAATTGGTCTGATGG
CAGAGTAACTGGTGAAGCAGATGTGAGTTCGCAACTCATGAAGATGCTGTGGCAGCTAT
GTCAAAAGACAAAGCAAATATGCAACACAGATATGTAGAACTCTTCTTGAATTCTACAGC
AGGAGCAAGCGGTGGTGTCTTACGAACACAGATATGTAGAACTCTTCTTGAATTCTACAGC
AGGAGCAAGCGGTGGTGTCTTATGGTAGCCAAATGATGGGAGGCATGGGCTTGTCAAACCA
GTCCAGCTACGGGGGCCAGCCAGCCAGCAGCTGAGTGGGGGTACGGAGGCGGCTACGG
TGGCCAGAGCAGCATGAGTGGATACGACCAAGTTTTACAGGAAAACCTCAGTGATTTTCA
ATCAAACATTGCATAGGTAAACCAAGGAGCAGTGAACAGCAGCTACTACAGTAGTGAAGC
CGTGCATCTATGGGCGTGAACGGAATGGGAGGGTTGTCTAGCATGTCCAGTATGAGTGGT
GGATGGGGAATGTAATTGATCGATCCTGATCACTGACTCTTGGTCAACCTTTTTTTTTTTT
TTTTTTTTTTTTCTTTAAGAAAACCTCAGTTTAAAGTCTTGCAATACAAGCTTGTGATT
TATGCTTACTCTAAGTGGAAATCAGGATTGTTATGAAGACTTAAGGCCAGTATTTTGA
ATACAATACTCATCTAGGATGTAAAGTGAAGCTGAGTAACTATAAAGTTAACTTAA
GTTCCAGCTTTTCTCAAGTTAGTTATAGGATGTACTTAAGCAGTAAGCGTATTTAGGTAA
AAGCAGTTGAATTATGTTAAATGTTGCCCTTTGCCACGTTAAATTGAACACTGTTTTGGA
TGCATGTTGAAAGACATGCTTTTATTTTTTTGTAAAAAATATAGGAGCTGTGTCTACTA
TTAAAAGTGAACATTTTGGCATGTTTGTAAATCTAGTTTCATTTAATAACCTGTAAGG
CACGTAAGTTAAGCTTTTTTTTTTTTTTAAAGTTAATGGGAAAAATTTGAGACGCAATACC
AATACTTAGGATTTTGGTCTTGGTGTGTTGTATGAAATCTGAGGCCTTGATTTAAATCTT
TCATTGTATTGTGATTTCTTTTAGGTATATTGCGCTAAGTGAACCTTGTCAAATAAATC
CTCCTTTTAAAAACTG

Gene 298. >ENST00000329433 cDNA sequence

ATGGATTGGGTGTTGAAGCATACTGGTCCAAATAGTCCTGACACGGCCAATGATGGCTTT

FIGURE 1 (CONT'D)

GTACGGCTTAGAGGACTTCCCTTTGGATGTAGCAAGGAAGAAATTGTTTCACTTCTTCTCA
GGGTTGGAAATCGTGCCAAATGGGATAACATTGCCGGTGGACTTCCAGGGGAGGAGTACG
GGGGAGGCCTTCGTGCAGTTTGTCTTACAGGAAATAGCTGAAAAGGCTCTAAAGAAACAC
AAGGAAAGAATAGGGCACAGGTATATTGAAATCTTTAAGAGCAGTAGAGCTGAAGTTAGA
ACTCATTATGATCACCACGAAAGCTTATGGCCATGCAGCGGCCAGGTCTTATGACAGA
CCTGGGGCTGGTAGAGGGTATAACAGCATTGGCAGAGGAGCTGGCTTTGAGAGGATGAGG
CGTGGTGCTTATGGTGGAGGCTATGGAGGCTATGATGATTACAATGGCTATAATGATGGC
TATGGATTTGGGTGAGATAGATTTGGAAGAGGAATGTCTGATCACAGATACGGGGATGGT
GGCTCTACTTTCCAGAGCACAAAGGACACTGTGTACACATGCGGGGATTACCTTACAGA
GCTACTGAGAATGACATTTATAATTTTTTTTACCCTCAACCCTGTGAGAGTACACATT
GAAATTGGTCCTGATGGCAGAGTAACTGGTGAAGCAGATGTGAGTTTCGCAACTCATGAA
GATGCTGTGGCAGCTATGTCAAAGACAAAGCAAATATGCAACACAGATATGTAGAATC
TTCTTGAATTTCTACAGCAGGAGCAAGCGGTGGTGCTTACGGTAGCCAAATGCTAGGAGGC
ATGGCAAACAGTCCAGCTACGGGGGGCCAGCCAGCCAGCAGCTGAGTGGGGGTTACGGA
GGCGGCTACGGTGGCCAGAGCAGCATGAGTGGATACGGTAAA

Gene 299. >ENST00000334421 cDNA sequence

CCGTAGTCAACGTGCGCCTCCCTCCCGGCTCCAGCCGGGCGCGCCCCGGGCTCGAGTC
TCTGCCTGCCCAGTGGCAGCCCCGCCCTTCTCTCCAGTGGGCCCCCGGCGCCAGCTC
CGCGTCTGTGAGGTCCAGTGGCCGCCAGGCGCGACCATCTGGGTGCGCGGAGAGCG
CGCATGGCGGCTGTGGGACCGCGGACCGGCCCGGAACCGGCGCCGAGGCTCTAGCGCTG
GCGGCAGAGCTGCAGGGCGAGGCGACGTGCTCCATCTGCCTAGAGCTCTTTCTGTGAGCCG
GTGTCCGTGAGTGCAGGCCACAGCTTCTGCCGCGCCTGCATAGGGCGCTGCTGGGAGCGC
CCGGGCGCGGGGTCTGTTGGGGCCGCCACCCGCGCGCCCCCTTCCCACTGCCCTGTCCG
CAGTGCCGCGAGCCCGCGCGCCCCAGTCAGCTGCGGGCCCAACCGGCAGCTGGCGGCAGTG
GCCACGCTCCTGCGGCGCTTCAGCCTGCCCGCGGCTGCCCGGGAGAGCACGGGTCTCAG
GCGGCGCGGGCCCGGGCAGCGGCTGCCCGCTGCGGGCAGCATGGCGAACCTTCAAGCTC
TACTGCCAGGACGACGGAACGCGCCATCTGCGTGGTGTGCGACCGCGCCCGCGAGCACCGC
GAGCACGCCGTGCTGCCGCTGGACGAGGCGGTGCAGGAGGCCAAGGAGCTCTTGGAGTCC
AGGCTGAGGGTCTTGAAGAAGGAACTGGAGGACTGTGAGGTGTTCCGGTCCACGGAAAAG
AAGGAGAGCAAGGAGCTGCTGGTGAGCCAGGCACCCGAGGCCCCCGTGGGACATTACA
GAGGCCTGAGAACTCAGCACAGGGCTCGGTGTGTGTGGTGTGGAGTGTGTGCTATGGA
ACCGCAGAATCGATTTTCAAGAGATAATAGAGTCCATATTATATAGGGTGTCCACATAAT
TGTTGTACAAACCAGAGCTTTTTTAAAGTGAAAAGCAGTGCTAAAATAATTATTGCAAAAC
AACTGGCTTAAACTGGAGCTGTCCAGCGAATCAGGACGCTCAGTCACTCTGATATTACG
TAACATACCAGTTAGGGCCTGCGGAAGCATCTTGTAAATGGAAACATTACTATTTCTGCA
GAGAAACATGGATATTCAATAAGTGGGAATATTAATACAATAAAGAGCCTCATGGCATGT
TTTGTCAACAAAACAGTAGT

Gene 300. >ENST00000322434 cDNA sequence

AGCGGCCGCTTGTCTCTAGGTCCAGGCGCTCTGCGGAGCTTTCGCTGCCCGGTGAG
CGGCGCCGGGCTTGAGGTGCGCCAGACGTGCGAGGAGCCGGGTACGAGGCTGGAGCTTC
CTGCTTGACAGAGTGCAGCGGGGAGGCGCGGCCCGGAACGCGGGATCCTGGGGAGATCTG
CCTTCTGGAGACTGCGCCGTCTCCCGGGAGAGCCAGAAAGAGGACATGGCTGCTGGGCA
GCGGGAAGCGAGGCCCCAGGTGTCACTGACATTGAGGACGTGGCTGTGCTCTTTACCTG
GGATGAGTGGAGAAAGCTGGCTCCTTCTCAGAGAACTTGTACCGGGATGTGATGCTGGA
GAACTATAGGAACCTGGTCTCACTGGGACTCTCATTTACCAAACCAAAGTCATCTCCCT
GTTGCAGCAAGGAGAAGATCCCTGGGAGGTGGAGAAAGACAGTTCTGGTGTCTCCTCTCT
AGGATGTAAGAGCACACCTAAAATGACAAAGTCAACTCAAACCTCAGGATTCATTTACGGA
GCAGATAAGGAAAAGATTGAAAAGGGATGAACCTGGAACCTCATATCAGAAAGATCCTG
CATATATGAAGAGAAATTAAGAAAACAGCAGGACAAAATGAAAATTTACAAATAATTTT
AGTTGCCCATACAAAATCCTTACTGTAGATAGAAGCCATAAAAATGTTGAATTTGGCCA
AACTTCTACCTGAAATCAGTCTTCATTAAAGCAACAGAGATTTGCTAAAGAAAAAACTCC
ATCAAATGTGAAATACAAAGAAATAGTTTCAAGCAGAATTCAAATTTACTTAACCAATC
AAAAATCAAAACAGCAGAGAAACGCTATAAATGCAGTACATGTGAAAAAGCCTTCATTCA
CAATTCATCCCTTCGTAAACATCAGAAAAACCACTGGAGAAAAATTATTTAAATGTAA

FIGURE 1 (CONT'D)

AGAATGTTTAAAAGCTTTTCAGCCAAAGTTCTGCTCTTATTCAACATCAAAGAACTCATAC
 AGGAGAGAAAACCTATATATGTAAAGAATGTGGGAAAGCCTTCAGCCATAGTGCATCCCT
 TTGTAAGCATTAAAGGACCCATACTGTGGAGAAATGCTATAGATGTAAAGAATGTGGTAA
 ATCCTTCAGTCGAAGGTCTGGGCTTTTATACATCAAAAAATCCATGCTCAAGAAAATCC
 CCATAAATACAATCCAGGCAGGAAGGCATCCAGTTACAGCACTTCCCTTTCTGGAAGTCA
 GAAAATTCATCTCAGAAAGAAGTCTACTTATGTAATGAATGTGGCAACACCTTTAAGTC
 TAGCTCATCCCTTCGTTATCATCAGAGAATTCACACTGGAGAGAAGCCTTTTAAATGTAG
 TGAATGTGGGAGAGCCTTCAGCCAGAGTGCCTCTCTTATTCAACATGAAAGAATTCACAC
 CGGAGAAAAGCCCTATAGATGCAATGAATGTGGGAAAGCCTTTACTTCTATTTACGACT
 TAATAGACACCGAATAATTCATACTGGAGAGAAATTGTATAATTGTAATGAATGTGGTAA
 AGCCTTAAGCTCCCACTCAACACTTATTATTATGAGCGAATTCATACTGGAGAAAACC
 ATGTAAATGTAAAGTATGTGGAAAAGCCTTCAGACAGAGTTCCGCTCTCATTCAACATCA
 GAGAATGCATACTGGAGAAAGACCCTATAAGTGTAAAGTGTGACAAAACATTAGGTG
 TAACTCATCGCTTAGTAATCACAGAGAATTCATACTGGAGAGAAACCATATCGATGTTT
 AGAATGTGGGATGTCTTTTGGCCAAAGTGCAGCTCTTATACAACATCAGAGGATTTCATAC
 AGGAGAAAAACCTTTTAAATGTAATACATGTGGAAAACTTTTAGACAAAGCTCATCACT
 TATTGCACATCAAAGAATTCATACTGGAGAGAAACCTATGAATGTAATGCATGTGGGAA
 ACTCTTTAGCCAGAGGTATCCCTTACTAATCATTATAAAATTACATTGAAGAGGACTC
 CTTAAAAGCCGATTTGCATGTGTGAAAGCCTTAAACCAAACTCATCAGAGAATACATGC
 TTGAGAGTGATTTATTAAATATAATGAATATGAGAAAACCTTTAGTTCTCATCAGATACT
 AAGTTTTAAGAATAAACTTTAGCTATGTAATAACTTATGGGAAAAGCTTTTATACTTGTC
 ACTCACTTTTTTAAATATCCCGAGACAGTTCACTGTTGCAGACATTGAAATTGGCCATTT
 GTAAGATAAAAGGTATGTTTATAAAATCTCTTTATATAATATATGCTATCTATGACATGC
 AAAAAAGAAAAGTCTGGGTGCTGAGGTGCTGAATTTTTCATTAGAAAAACATTTGTATAA
 ACTACTATTATATAAATATAAGCATATTTATTACAGCAAACATTTTAAAGCAAAACAAA
 CAATTGATCTTAAAAATATATGCAATATATACTTACCTGGCAGGGAAGATTACCATGATC
 ACGAAGGTGGTTTTTCCAGGGCAAGGCTTATCCATTGCACTCAGATGTGCTGACCCCTT
 CAATTTCCCAAATGTGGAAAACCTCAACTGCATAATTTATGGTAGTGGGGGACTACATTC
 GCACTTTCTCCTGAAATATATATATATATGAGTATTAGAGCAAAGGACCAATAAGAGAT
 AAAAACTAACTGAACTACCTCTTAGTGCCTGGAATTTACCTTTTCTGACTTACTGTCAA
 ACTTCGTGCATGGCTTTTATTAAAAAAGAAAAAATCTGTTCT

Gene 301. >ENST00000261961 cDNA sequence

GGCCCTGAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTG
 CTGCTGCTTGCTCCTCATCCTCGTTTATTGCCGAAGAAGGAGGGGCTGGACTCAGATGTG
 GCTGACTCGTCCATTCTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCA
 GACAACCCCATCTGCTCACCATCCAGCCGGACCTCAGCACCACCAACCACTACCAG
 GGCAGTCTCTGTCCCCGGCAGGATGGGCCAGCCCCAAGTTCCAGCTCACCAATGGGCAC
 CTGCTCAGCCCCCTGGGTGGCGGCCGACACACTGCACCACAGCTCTCCACCTCTGAG
 GCCGAGGAGTTTCGTCTCCCGCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGC
 ACCAGCAACATGACCTATGGGACCTTCAACTTCTCGGGGGCCGGCTGATGATCCCTAAT
 ACAGGAATCAGCCTCCTCATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATC
 TACCTCACGCTGCACAAGCCGAAGACGTGAGGTTGCCCCCTAGCTGGCTGTGAGACCTG
 CTGAGTCCCATCGTTAGCTGTGGACCCCCCTGGCGTCTGCTCACC CGGCCAGTCATCCTG
 GCTATGGACCACTGTGGGGAGCCAGCCCTGACAGCTGGAGCCTGCGCTCAAAAAGCAG
 TCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTC
 TACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTACCGAGCAGCTGGGCCGCTTT
 GCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTT
 GCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACC
 CACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAG
 GAGCCACGGGTCTGCACTTCAAGGACAGTTACCACAACCTGCGCTATCCATCCACGAT
 GTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTAT
 CACATCTGGAATGGCACGCAGCGGTACTTGCACCTGCACCTTACCCTGGAGCGTGTGAGC
 CCCAGCACTAGTGACCTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAG
 AGCTTCAGCATCAACTTCAACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTG

FIGURE 1 (CONT'D)

GAGAGTGAAGCGGGGTCCCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTC
ATTTCGGCAGAAGATAATTTCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGG
ACTCTGGCCCAGAACTCCACCTGGAAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGC
CCCACAGCCATGATCCTCAACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGC
CAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTG
GAGGCTGAGTGTCTGA

Gene 302. >ENST00000329542 cDNA sequence

GCAGGTGCCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCGGACCTG
CTTCCCCACTTCTGGTGGAGCCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGTG
CTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTG
CGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCACCATG
GAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAGGTGTTGGGGCTGGAGGAATAC
TGGTGCCAGTGCCTGGCATGGAGCTCCTCGGGCACCACAAGAGTCAGAAGGCCTACATC
CGCATAGCCTATTTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTG
GAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCAGCCGAGGTGGAG
TGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATCACGCGG
GAGCACAGCCTGGTGGTGCAGCAGGCCCGCCTTGCTGACACGGCCAATAACCTGCGTG
GCCAAGAACATCGTGGCACGTGCCCGCAGCGCCTCCGCTGCTGTCTCGTCTACGTGGAC
GGCAGCTGGAGCCCCTGGAGCAAGTGGTGGCCTGTGGGCTGGACTGCACCACTGGCGG
AGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGAC
CTGGACACCCGCAACTGTACCAAGTGAACCTCTGTGTACACACTGCTTCTGGCCCTGAGGAC
GTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCTGTGCTGCTTGTG
CTCATCCTCGTTTATTGCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCC
ATTCTCACCTCAGGCTTCCAGCCCCTCAGCATCAAGCCCAGCAAAGCAGACAACCCCAT
CTGCTCACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGT
CCCCGGCAGGATGGGCCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCC
CTGGGT

Gene 303. >ENST00000316308 cDNA sequence

ATGCGGCATTCCAAAAGAACTCACTGTCCTGATTGGGATAGCAGAGAAAGCTGGGGACAT
GAAAGCTATCGTGGAAGTCACAAGCGGAAGAGGAGATCTCATAGTAGCACACAAGAGAAC
AGGCATTGTAAACCATCACACAGTTTAAAGAATCTGATTGTATTATTTAGAAGCAAGG
TCCTTGAATGAGCGAGATTATCGGGACCCGAGATACGTTGACGAATAAGGAATGACTAC
TGTGAAGGATATGTTCTTAGACATTATCACAGAGACATTGAAAGCGGGTATCGAATCCAC
TGCAGTAAATCTTCAGTCCGAGCAGGAGAAGCAGTCTTAAAGGAAGCGCAATAGACAC
TGTTCAAGTCATCAGTCACGTTGAAAGAGCCACCGAAGGAAAAGATCCAGGAGTATAGAG
GATGATGAGGAGGGTCACTGATCTGTCAAAGTGGAGACGTTCTAAGAGCAAGATATGAA
ATCGTGGACACTTTGGGTGAAGGAGCCTTTGGCAAAGTTGTAGAGTGCATTGATCATGGC
ATGGATGGCATGCATGTAGCAGTGAAGATCGTAAAAAATGTAGGCCGTTACCGTGAAGCA
GCTCGTTTCAGAAATCCAAGTATTAGAGCACTTAAATAGTACTGATCCCAATAGTGTCTTC
CGATGTGTCCAGATGCTAGAATGGTTTGATCATCATGGTCATGTTTGTATTGTGTTTGA
CTACTGGGACTTAGTACTTACGATTTTATTAAAGAAAACAGCTTTCTGCCATTTCAAATT
GACCACATCAGGCAGATGGCGTATCAGATCTGCCAGTCAATAAATTTTTTACATCATAAT
AAATTAACCCATACAGATCTGAAGCCTGAAAATATTTTGTGTTGTGAAGTCTGACTATGTA
GTCAAATATAATTCTAAATGAAACGTGATGAACGCACACTGAAAAACAAGATATCAAA
GTTGTTGACTTTGGAAGTGCAACGTATGATGATGAACATCACAGTACTTTGGTGTCTACC
CGGCACTACAGAGCTCCCGAGGTCATTTTGGCTTTAGGTTGGTCTCAGCCTTGTGATGTT
TGGAGCATAGGTTGCATTCTTATTGAATATTACCTTGGTTTTCAGTCTTTTCAGACTCAT
GATAGTAAAGAGCACCTGGCAATGATGGAACGAATATTAGGACCCATACCACAACACATG
ATTCAAGAAAACAAGAAAACGCAAGTATTTTACCATAACCAGCTAGATTGGGATGAACAC
AGTTCTGCTGGTAGATATGTTAGGAGACGCTGCAAACCGTTGAAGGAATTTATGCTTTGT
CATGATGAAGAACATGAGAACTGTTTGACCTGGTTCGAAGAATGTTAGAATATGATCCA
ACTCAAAGAATTACCTTGGATGAAGCATTGCAGCATCCTTTCTTTGACTTATTAAAAAAG
AAATGAAATGGGAATCAGTGGTCTTACTATATACTTCTCTAGAAGAGATTACTTAAGACT
GTGTGAGTCAACTAAACATTCTAATATTTTTGTAAACATTAAATTATTTTGTACAGTTAA

FIGURE 1 (CONT'D)

GTGTAAATATTGTATGTTTTGTATCAATAGCATAATTAACCTGTTAAGCAAGTATGGTCT
TGATAATGCATTAGAAAAATTAATAATTTTTCTTTTTGAAATTACCATTTTTAAATA
CCTTTGAAATATCCTTTGTGTCCAGTGATAAATGTGATTGATCTTGCCTTTTGTACATGG
AGGTCACCTCTGAAGTGATTTTTTTTTGAGTAAAAGGAAATCTTGACTACTTT

Gene 304. >ENST00000292432 cDNA sequence

GGGTGCCTCATATTGCCAGACAAGAGCTCAGACCTGAGGAGAGTGACTAGCTTCTCTGTG
TCCCAGGTGGCCACCTTCCACTGTGGAAGCTCATGGACTCCATTGGGTCTTCAGGGTTGC
GGCAGGGGGAAGAAACCCTGAGTTGCTCTGAGGAGGGCTTGCCCGGGCCCTCAGACAGCT
CAGAGCTGGTGCAGGAGTGCCTGCAGCAGTTCAAGGTGACAAGGGCACAGCTACAGCAGA
TCCAAGCCAGCCTCTTGGGTTCCATGGAGCAGGCGCTGAGGGGACAGGCCAGCCCTGCCC
CTGCGGTCCGGATGCTGCCTACATACGTGGGGTCCACCCACATGGCACTGAGCAAGGAG
ACTTCGTGGTGTCTGGAGCTGGGGGCCACAGGGGCCCTCACTGCGTGTTTTGTGGGTGACTC
TAACTGGCATTGAGGGGCATAGGGTGGAGCCCAGAAGCCAGGAGTTTGTGATCCCCAAG
AGGTGATGCTGGGTGCTGGCCAGCAGCTCTTTGACTTTGCTGCCCACTGCCTGTCTGAGT
TCCTGGATGCGCAGCCTGTGAACAAACAGGGTCTGCAGCTTGGCTTCAGCTTCTCTTTCC
CTTGTCAACAGACGGGCTTGACAGGAGCACCTCATTTCTGGACCAAGGTTTTAGGT
GCAGTGGTGTGGAAGGCCAGGATGTGGTCCAGCTGCTGAGAGATGCCATTGCGAGGCAGG
GGGCCTACAACATCGACGTGGTTGCTGTGGTGAACGACACAGTGGGCACCATGATGGGCT
GTGAGCCGGGGGTGAGCCGTGTGAGGTTGGGCTAGTTGTAGACACGGGCACCAACGCGT
GTTACATGGAGGAGGCAAGGCATGTGGCAGTGCTGGACGAAGACCGGGCCGCGTCTGCG
TCAGCGTCGAGTGGGGCTCCTTCAGCGATGATGGGGCGCTGGGACCACTGCTGACCACCT
TCGACCATAACCTGGACCATGAGTCCCTGAATCCTGGTGTCTCAGAGGTTTGAAGAAGATGA
TCGGAGGCCTGTACCTGGGTGAGCTGGTGCGGCTGGTGCTGGCTCACTTGGCCCGGTGTG
GGGTCTCTTTGGTGGCTGCACCTCCCTGCCCCTGCTGAGCCAAGGCAGCATCCTCCTGG
AACACGTGGCTGAGATGGAGGACCCCTCTACTGGGGCAGCCCGTGTCCATGCTATCCTGC
AGGACTTGGGCCTGAGCCCTGGGGCTTCGGATGTTGAGCTTGTGCAGCACGTCTGTGCGG
CCGTGTGCACGCGGGCTGCCAGCTCTGTGCTGCCGCCCTGGCCGCTGTTCTCTCCTGCC
TCCAGCACAGCCGGGAGCAACAAACACTCCAGGTTGCTGTGGCCACCGGAGGCCGAGTGT
GTGAGCGGCACCCCAAGTTCTGCAGCGTCTGTCAGGGGACAGTGATGCTCCTGGCCCCGG
AATGCGATGTCTCCTTAATCCCCTCTGTGGATGGTGGTGGCCGGGGAGTGGCGATGGTGA
CTGCCGTGGCTGCCCGTCTGGCTGCCACCGGCGCCTGCTGGAGGAGACCCTGGCCCCAT
TCCGGTTGAACCATGATCAACTGGCTGCGGTTGAGGCACAGATGCGGAAGGCCATGGCCA
AGGGGCTCCGAGGGGAGGCCTCCTCCCTTCGCATGCTGCCCACTTTCTGTCGGGCCACCC
CTGACGGCAGCGAGCGAGGGGATTTCTGGCCCTGGACCTCGGGGGCACGAACCTTCCGTG
TCCTCCTGGTACGTGTGACCACAGGCGTGCAGATCACCAGCGAGATCTACTCCATTCCCG
AGACTGTGGCCCAGGGTTCTGGGCAGCAGCTCTTTGACCACATCGTGGACTGCATCGTGG
ACTTCCAGCAGAAGCAGGGCCTGAGCGGGCAGAGCCTCCCACTGGGTTTTACCTTCTCCT
TCCCATGTAGGCAGCTTGGCCTAGACCAGGGCATCCTCCTGAACTGGACCAAGGGTTTCA
AGGCATCAGACTGCGAGGGCCAAGATGTGCTGAGTCTGTTGCGGGAAGCCATCACTCGCA
GACAGGCAGTGGAGCTGAATGTGGTTGCCATTGTCAATGACACGGTGGGGACCATGATGT
CCTGTGGCTATGAGGACCCCCGTTGCGAGATAGGCCTCATTGTGCGAACCGGCACCAATG
CCTGCTACATGGAGGAGCTCCGGAATGTGGCGGGCGTGCCTGGGGAATCAGGCCGCATGT
GCATCAACATGGAGTGGGGCGCCTTTGGGGACGATGGCTCTCTGGCCATGCTCAGCACCC
GCTTTGATGCAAGTGTGGACCAGGCGTCCATCAACCCCGGCAAGCAGAGGTTTGAAAAGA
TGATCAGCGGCATGTACCTGGGGGAGATCGTCCGCCACATCCTTTTACATTTAACAGCC
TTGGCGTTCTCTTCCGGGGCCAGCAGATCCAGCGCCTTCAGACCAGGGACATCTTCAAGA
CCAAGTTCCTCTCTGAGATCGAAAGTGACAGCCTGGCCCTGCGGCAGGTCCGAGCCATCC
TAGAGGATCTGGGGCTACCCCTGACCTCAGATGACGCCCTGATGGTGTCTAGAGGTGTGCC
AGGCTGTGTCCCAGAGGGCTGCCAGCTCTGTGGGGCGGGTGTAGCTGCCGTGGTGGAGA
AGATCCGGGAGAACCGGGGCCTGGAAGAGCTGGCAGTGTCTGTGGGGGTGGATGGAACGC
TCTACAAGCTGCACCCGCGCTTCTCCAGCCTGGTGGCGGCCACAGTGCGGGAGCTGGCCC
CTCGCTGTGTGGTCACTTCTGTCAGTCAAGGATGGGTCCGGCAAAGGTGCGGCCCTGG
TCACCGCTGTTGCCTGCCGCTTGCAGGTTGACTCGTGTCTGAGGAAACCTCCAGGCTG
AGGAGGTCTCCGCCGAGCCTTGCTGGAGCCGGGTGGGGTCTGCCTGTTTCCAGCCAG

FIGURE 1 (CONT'D)

GCCCAGCCACCCAGGACTCCTGGGACATCCCATGTGTGACCCCTCTGCGGCCATTTGGCC
TTGCTCCCTGGCTTTCCCTGAGAGAAGTAGCACTCAGGTTAGCAATATATATATATAATT
TATTT

Gene 305. >ENST00000331874 cDNA sequence

ATGCCGTGTCAGTCCCGAAGACCTCCATAGAGTCCCTTGGGTCTCCATCATCCCTGAGC
TCCTCCAGGCATCAGAGCCTCTGTGTCCCCTGAAGCACCTTCACACCGGCCACCTGCG
AGCACCTATCACCAAACCTGACCAGCTCCACAGAATCCTTGGGGTATCTGTTCATCCCTC
AGCTCCTCTCAGCCACCAGAGCCTTTGCGTCCCCTGGAATGTCCTTCACACAAGCCATGT
GGGCGTTCCCTTTCCCGACGACGGAATCCTGGCTGGGTGTCTGGTCCGACTCCATGCAG
GCTGATTCCGAAACTGACGCCATAATATGCCCAATGTGCAAGGCCCTGAGCGCTCCTGT
CCACACACCTGGTGGGTGCCTTCTAGCCCTCGAGTGATCCGAGGCGTTGGTCGCTGCAGT
GATCCCAACCTGGGCCTCTCCTGGAGGCAGGAGGCTGCTAGAGCCTGGTGCCACTGCACC
TCCTCACAGTACCCATTCAAGCACCTAATCTTCCCACCCACCTACCAAAGGCTTCTTTC
TAG

Gene 306. >ENST00000329156 cDNA sequence

ATGGCTAAAGGTGACCCCAAGAAACCAAAGGGCAAGATGTCTGCTTATGTCTTCTTTGTG
CAGACATGCAGAGAAGAATGTAAAAAGAAAAACCTGTCAATTTTGCAGAATTTTCCAAG
AAGTGCTCTGAAAGGTGGAAGACAATGTCCGGGAAAGAGAAGTCTAAATTTGATGAAATG
GCAAAGACGGATAAAGTGCACTGTGATCGGGAAATGAAGGGACCAGCTAAGGGAGGCAAG
AAGAAGAAGGATCCTAGTGCCCCCAAAAGGCCACCATCTGGATTCTTCTGTTCTCTTCG
GAAATCCGCCCCAAGATCAAATCCACAAACCTGGCATCTCTATTGGAGATGTGGCAAAA
AAGCTGGGTGAGATGTGGAATAACTTAAATGACAGTGAAAAGCAGCCTTACATCACTAAG
ACGGCAAAGCTGAAGGAGAAGTACGAGAAGGATGTTGCTGATTCTAAGTCGAAAGGGAAG
TTTGATGGCTCAAAGCGT

Gene 307. >ENST00000247461 cDNA sequence

GGCACGTGACGGTCCGGCCCGCTCCGCTCTCTCTTTACTGCGGCGCGGGCAAGGTGTG
CGGGCGGGAAGGGGCACGGGCACCCCCGCGGTCCCCGGGAGGCTAGAGATCATGGAAGGG
AAGTGGTTGCTGTGTATGTTACTGGTGCTTGGAACTGCTATTGTTGAGGCTCATGATGGA
CATGATGATGATGTGATTGATATTGAGGATGACCTTGACGATGTCAATTGAAGAGGTAGAA
GACTCAAACACGATACCACTGCTCCTCCTTCATCTCCAAGGTTACTTACAAAGCTCCA
GTTCCAACAGGGGAAGTATATTTTGTGATTCTTTTGACAGAGGAACTCTGTCAAGGTGG
ATTTTATCCAAAGCCAAGAAAGACGATACCGATGATGAAATTGCCAAATATGATGGAAAG
TGGGAGGTAGAGGAAATGAAGGAGTCAAAGCTTCCAGGTGATAAAGGACTTGTGTTGATG
TCTCGGGCCAAGCATCATGCCATCTCTGCTAAACTGAACAAGCCCTTCTGTTTGACACC
AAGCCTCTCATTGTTTCAGTATGAGGTTAATTTCCAAAATGGAATAGAATGTGGTGGTGCC
TATGTGAAACTGCTTTCTAAAAACACAGAACTCAACCTGGATCAGTTCCATGACAAGACC
CCTTATACGATTATGTTTGGTCCAGATAAATGTGGAGAGGACTATAAACTGCACTTCATC
TTCCGACACAAAAACCCCAAAACGGGTATCTATGAAGAAAAACATGCTAAGAGGCCAGAT
GCAGATCTGAAGACCTATTTTACTGATAAGAAAAACACATCTTTACACACTAATCTTGAAT
CCAGATAATAGTTTTGAAATACTGGTTGACCAATCTGTGGTGAATAGTGGAAATCTGCTC
AATGACATGACTCCTCCTGTAAATCCTTCACGTGAAATTGAGGACCCAGAAGACCGGAAG
CCCGAGGATTGGGATGAAAGACCAAAATCCCAGATCCAGAAGCTGTCAAGCCAGATGAC
TGGGATGAAGATGCCCCCTGCTAAGATTCCAGATGAAGAGGCCACAAAACCCGAAGGCTGG
TTAGATGATGAGCCTGAGTACGTACCTGATCCAGACGCAGAGAAACCTGAGGATTGGGAT
GAAGACATGGATGGAGAATGGGAGGCTCCTCAGATTGCCAACCTTAGATGTGAGTCAGCT
CCTGGATGTGGTGTCTGGCAGCGACCTGTGATTGACAACCCCAATTATAAAGGCAAATGG
AAGCCTCCTATGATTGACAATCCCAGTTACCAGGGAATCTGGAAAACCCAGGAAAATACCA
AATCCAGATTTCTTTGAAGATCTGGAACCTTTCAGAATGACTCCTTTTATGTGCTATTGGT
TTGGAGCTGTGGTCCATGACCTCTGACATTTTTTTTGACAACTTTATCATTGTGCTGAT
CGAAGAATAGTTGATGATTGGGCCAATGATGGATGGGGCCTGAAGAAAGCTGCTGATGGG
GCTGCTGAGCCAGGCGTTGTGGGGCAGATGATCGAGGCAGCTGAAGAGCGCCCGTGGCTG
TGGGTAGTCTATATTCTAACTGTAGCCCTTCTGTGTTCTGTTTATCCTCTTCTGCTGT
TCTGGAAAGAAACAGACCAGTGGTATGGAGTATAAGAAAACCTGATGCACCTCAACCGGAT
GTGAAGGAAGAGGAAGAAGAGAAGGAAGAGGAAAAGGACAAGGGAGATGAGGAGGAGGAA

FIGURE 1 (CONT'D)

GGAGAAGAGAACTTGAAGAGAAACAGAAAAGTGATGCTGAAGAAGATGGTGGCACTGTC
 AGTCAAGAGGAGGAAGACAGAAAACTAAAGCAGAGGAGGATGAAATTTTGAACAGATCA
 CCAAGAAACAGAAAGCCACGAAGAGAGTGAAACAATCTTAAGAGCTTGATCTGTGATTTCT
 TTCTCCCTCCTCCCCTGCAAGAGTGGTCCTAGGAGAGGACCTGGCACACCTTAGGTTGAC
 ATTCAGAAAACTTCAAGACATCACCATCAGCAGGCTCCAGTTGAACACTAGTCTGTGTAA
 CTTTAAACATCTAGCAGTAAATACTTGCAGTTGTGATATAAAGGACCCTGTTTCTGTAGA
 AAAGAAAAATTTAACATAATGGTTGTGAAATGTAACATGAAGCAAATAACTTTTTTTTTT
 TTTTAACATCTTTGTTTTTAAAATAGAATGATAGAACTTTGCCAGTCTTTAAGATCTTGG
 CTTAATTTAATGTATTAATCTGTTTGTGCAACATAATACCACATTTAAAAATGTTAGG
 GAGATGAGTTGCAGTTTTTATAATAGATTTTTTTTTTAAAGTTTGGTATTGTAAAACATTCA
 CACCTCTGTCCCTCAAAATTGATAATTACGTTTAAAGTGCAGTCATTTGTGGTTAGAATC
 TTGTTTTGTTTGCTTCCATTATTGAGTTCTCCTAAGGAAATTGAGGAGAGGGACTGAAT
 AGAAGCCCAAATTCATATAAAAGTTGCGTTTAAAGTTGTATTAAAAATAGATATATAAGAA
 AAAATCTTTCACTTGATGTTTGTAGACCAGAAAGTGTGTGTGTTCTGTAGCTCAGTTC
 CCAGACAGCTTTTTAGGTAGTGGAGGAGGTGGCTTCATGTGGCACTTGGGCATTTATATT
 CCACTTGGGAGGGTCAGGCTGTGGCCTTCTGGAGCAGGTGGCTTGTAAAGGAATGCTAGC
 AGGGCATGGCACGTGAGCTCCGGAATAGATGTCTTCATCACTTCTTCACTGTGTGTTGA
 CACTGTTTTCTTACCTATTTCTCAGATCCCAGCTTCTCCTCTGCTATGCATTTTCT
 TCACAGTGCAGCTTGCAGTCCGTTGTGAAAATGATTATAAGCCCTGCATAATGTTAAGC
 TTTATTGTGATTACGTGTATGTTTCTTCTTTTAAAGCAGACCCATACCTTTCCAGGG
 TCAAAGTACAGAATAGAATACATTGATACAAAGTACAGAAAAATACTTTGATTTTTATCC
 ATTTCTTTTACTCTGTGTAAAGACTTGAGAAGTCTAATTCACAGGCAAACCAATACAGAA
 TTGACTGCAGTTGAAACAGACTAGAAGTATTTGTGGGAGGAGTGACATGAAGCATGAGTTA
 TCTGATTTTTTTTTGTAGCTGCTATATATTTTAAAGCCTTCATTTGCAATTCATGTAAACAGT
 TGTGTCATAAATTACACAATAAAGCAGTCCTGTTCAAATTTTTTTTTTAAAGTGGCTTGTA
 GAATTTTTTAAAAAGTGATCTTAGGTTTGTGTTTTTTCATGCGGGATGCAGATGGGTGCTAT
 CAGAGCCTCTCCACACCACTATAGTGTAATAATGTTATTATTACTCTACACTGAAACGT
 ATTCAGAGTTAGATATTATTTTAGCTTCAGTTGTTCTTTAGAGGCTTTCAAATGTACCGA
 TGATACTGTTTCTTGCACTGAATATATAAAACACTCCACAGTGTATATTGGGAAGATAT
 TGGGAAGGAAATATATTTGTAAAAGATGAAGGCTGTATCTATTTTTTTTTTCTTTTAAAG
 TTTGTTCACTTAAATCTTTTGGAGGATGGGATGTATTTTTCTTGCTGTTTCACTGCTTTTT
 CCTTTTCATCTGTTGTTCTGTGGTCAAGTGCCTTAGCTACATAGCAGACTTTCCCAA
 TGTATTGATTACAAATAAACAGTTGTTACTTAGCAAGACCTGAAAATATGTCTGCAGGTT
 TCTCCTTGAAGCAAATGTGTGGGATCATTGCATTTCCAGAAATCTGCCTCCTTCAACCTC
 CGTTGACAGTATATGTCATGCCTCACTTTCTTCTAGCTGAGCTTTAAATCATTAGAGCTT
 AAATTGTCAGATCGTTCATTGCCTTTCCAGGGTATTTAGTAAAGTTTGTGAAAAACAAA
 AACGCCTTTTCTGGTTCTTTTTTTCAGTTATTTTGAAGGTCCAGCATCCTGATTAAATGT
 CTGACACATTAATGAATGACCAGCAGCAGCTTTCAGCTCTTAAAAAGACACTTATATTTT
 GATTTTACATGCTGGTTACCTGTTCCATTGTTGTCAAATGCCCACTCTCCATCAGATGTG
 TTCTCCATTTTCTTATCCACAAAGTACTCCTCACTTTTCAATTTGTGTCATGTTACTAAAT
 GGTGTTACATTAAAGCCCTGTGTTAAGTGTC

Gene 308. >ENST00000328856 cDNA sequence

GCTCAGTTGCCTGAGGACAGCAGTGACAGTTGACATGGATATTCTCTTTCTCTGGACAGT
 GTTATTGGTACAGAGCTGTGCCCCAGCCCCATTCCCCAGATCATCCATTTGTCCTCTTT
 GTTGTGTTTCAAGCTGGTGATCCTGATTATCTTACGCCTCTACATTCCCAGGGAGCCGTCC
 TCAGTGCCTCCCAGAGAGGAGGACAGCGAGAATGATCAAGCTGAAGTGGGGGAATGGCTC
 AGGATCGGAAATAAATATATCACTTTGAAAGATTACAGAATTCTCTTGAAAGAACTGGAG
 AACCTTGAGATCTACACTTTCTGTGCAAAAAGTGCCTGAAGAAGCTCTCTAGGGAGGGC
 AGCTCCCATCACCTTCCACGCCAAGTCCGCCAGGGCCAGTGTACAAACCAGCACCTGCT
 AGGAACCACCGGCCACGTGGGGGGCGTGGGAAAGCTTCTCCCACCAGCTTCCATGTGTCC
 CCACGGGCTCCCCTGGCTCCTCTGGCCTCCATGCCGTCTCAGTCCCGAAGACCTCCGTA
 GAGTCTTGGGGTCTCCATCATCCCTGAGCTCCTCCAAGCCACGAGAGCCTCTGTGTCCC
 CTGAAGCACCTTCCACACCAGCCACCTGCGAGCACCTATCACCAAACCCGACCAGCTCC
 ACAGAATCCTTGGGGTATCTGTCTATCCCTGAGCTCCTCCCAGCCACCAGAGCCTTTGCGT

FIGURE 1 (CONT'D)

CCCCTGAAGCACCCCTTCACACAAGCCACGTGGGCGTTCCCTTCCCGACGACGGAATCCT
GGCTGGGTGTCTGGTCCGACTCCATGCAGGCTGATTCCGAACTGACACCATAATATGC
CCAATGTGCAAGGCCCTGAGCGCTCCTGTCCACACACCTGGTGGGTGCCTTCTAGCCCT
CGAGTGATCCGAGGCGTTGGTGCCTGCAGTGATCCCAACCTGGGCCTCTCCTGGAGGCAG
GAGGCTGCTAGAGCCTGGTGCCACTGCACCTCCTCACAGTTCCATTCAAGCACCCCTAAT
CTTCCCACCCACCTACCAAAGGCTTCCTTCTAGGGAGACCCCAATGCAGGCAGGTGGAG
GCAGGGGTCCCGCTTTCTCAGCCTGGATGTGCCAACGCTGCTGGACGCATAAGACACCA
AAATCCCAGACACTCCCATGGACACCGAATATCCGACATCCACGAACAATTGGGAATCTC
CTGAGGACAACCTTGGAGGTGCGTCCCCTCATCTGCGCACCCCAAGATGCTGGAAATGCA
TGTTCTAATGGATTGGGAGAGACGGAGATGGGGTCCAAACCTCCAGTCCCTGGAGCCCGT
AAATCTCCTTGGGAGGCTTGGCGCCACAGAGACCTCTTCCACAGCGCTGCACACACAGA
TCTTCTTCTTAGAGGATCTGAACTCACTTAGAAAACCTGCCAGCACAGGAGGGATAACAT
CAGCTGTGCCCCCACTGGAGAACCAGAGACTCTGGGTCAATTGTCAACATTGCCCCAG
AATGGGCTCTCTGCTGGGGAAGATGCTCAGGAATTGCTGCTCTTTTGCAATGCCAGTCTC
TCCTAACAGAACTGCAGATTCACAGTGTAGACCTGCAAACCTTCTGTTCTCTGCAGTTCCC
TGAGTCACAGTTTACACAATCACAATTTTTTTTTTTTTTTTTAGATGGAGTCTCACTCTG
TTGCTCAGGCTGGAGTGCAGTGGCACCATCTTGGCTCACCACAACCTCCGCCTCCCGGAT
TCAAGCCATTCTCCTGCCTCAGCCTCCCGAGTAACCTGGGATTACAGGCTTGTGCCACCGC
ACCCAGCTAATTTTTGTAAATTTTGTAGTGCAGAGAAGGTGTACCATGTTAGCCAGGCTTGT
CTTGAACCTCCTGACCTTGAGATATCTGCCACCTCAGCCTCTCAAAGTCTGGGATTATA
GGCTTGAGCCACCACGGCTGGATGAATCATAAATTGTAAACCTGAATAAAATGCTGCAAC
CTCCAATGAGAGG

Gene 309. >ENST00000316131 cDNA sequence

CAGGACAGCTGGCACAAGCACCAAGACCGGGGGCAAGAGAACGCCCAACGACGAGAAG
TGGAAGTATGAGCTGGGGCGCCCTGCTGCCAATGCCAAGATCAGCCCCACCACATCCAC
ACAGTCCGTGTGCAGGGAAGTAACAAAAATACTGTGCCTGAGGCTGGATGTGGGGAGT
TTCTACTGGGGCTCAGAGTGTGTGAATTGCAAAACAGCATCATCGACGCTGTGACAAT
GTGTCCAAGAATGAACTGGTCCGTACCGAGACCCCGGTGAGGAGCTGCATCACACTCATT
GACAACACACTGTATCAGCAGTGGTACGAGTCTACTATGTGCTGCTCCTGGGCCGCAAG
AAAGGGGCCAAACTGATTCTCTGAGGAGGAAGAGATTTTAAACAAAAAGATAACATTGAG
AAGAAGTATGATGAAAGGAAAAAGAATGCCAAATCAGTCTTCTGGGGAAGCAGTTCCAA
CAGGGCAAGCTTCCTGCGTGCATCGCATCAAGGCCGGGACATTGTGGCCAAGCAGATGGC
TACGTGCTAGAGGGCGAGGAGTCAGAGTTCTATCTTAGGAAAATCAAGGCCCGGAAG

Gene 310. >ENST00000332929 cDNA sequence

GTAGCACTGCTTTTTTGGAGGCCAGTAGCAACATCCAGAGATCATTCTTCCATACTTTACT
CCCTCCTTTTTTCACTTGTGTGTAAAGTACAGAATCTGAATTTAGCCTTTATGATTGTA
TATGATCCACAGAAGACCTGATTTATGAAATTTTGTACTAAAATCATTTGGAAATGATTG
TATTGTAACTGAGGCTAAATTTTTTTTTTAAACCTGTTTCATGTGTTATAAAGGCCAGCT
TGTAAGAAGCTGCAACAGACTTTCTCTGCTCATGATTTGCACTCTTAGGGTTTTGTTA
GCCCTTTTGTACTACTTTCTTTTTTAAATTGAGAACATGGTTCTTTACATATAAATCTGCT
TCAACCTTAGGATGTTTTTCAAGCAGAGGCAACTTATTCATGAATTTTTATGAAAATAT
CTACTAGGACAGATAAGCTGAACAGTGATGATCTGTAGACATTTATGGACTGAATGTAAT
GGTTGATATATGTACATTCTGATATTTTTTAAATCTTTAACTTTTTTAAAGTTAAAAACCTA
CAGCTGCTTAGGTCCAGCTTCTTAACTCTTTTTGAGACACTTCCTGTCTATCTCCACTG
TGCCTGCCTAAATTTGTTCTCACCAGCACTGCCTGTGCATGCAGAGAAAATCTGTGCAT
CCTCTTTTATATTTTTTAAATACTGTTTAACTTTTGTGAGAATTTTATGAAAATGCTTTT
GTATGAGCTGTGGCTTTTTCCCATTTGTGAAGCATTGAATATCACATTTTGGAAATGTTA
TAGGGTGAGTCCCTGGATCTTTGCTCACCAGATCCAAGCACTGCTTCTCGGTGTCATTGC
AGTGTGCTGCTTGTCAACAGAACTACTATCATGTGAATCTTTTTGTGTCAGTGTG
TTTTCTTAGTCTTTTTGTTGTTGTTGTTGTTGTTGTTTAAATCATTCCTTTTTTAAGAA
GAAGTAATTTTCATTTATGAAGCAGTATGAATTAGATGTATTTTCAAAACAGGTCCCTA
AGACAATCTTCAGATCATTTTTTAAATGACTAAGTCATTTTAGTATGTCAAGCAAGATA
AAAATTACATCATACCGTCTATTTTGCCCATAGTGCCATTTAGAGATGAAAACAGCTTT
AACTTTGCAAAGTGAACATGTACATGGTCTGCTCTCATTTATTCTCTCTCTCAAAAG

FIGURE 1 (CONT'D)

TCAAATGAATGCAGAGGGAGCTTGGTCAAACCTGCTTTTGTTCCTGTCAGGCAGGGGAG
 CAAAAGGACGCCATGTGAGCATTAGGAAAAAATACTCACTCTTACTAACAATTTTAT
 ACAGAAAATGAGTCATTTTGGAAATGATTCTTATGTTTTTTTTTTCTCCTTTAGAAA
 ATTCTCCAAAAGGTTTTGATGTTGAATCTTGGTCTTGGACCTGTTTTTCTTTGAGGGT
 TTTTTGTTTTTTGTTTTTTCTAGGATTTCAATTGTGATGTTTTGGTTTTGTTTTTGCTTT
 TTGTTTTAAGTTGTGCTGACACCAAACACATCCAGTTTATAATCAGTACATTGGAAAGCTG
 GTATTGATGTAGAACCAGTGCACTAATTTTTATGGGGTTTTGTTATTGGTTTTTTTTTGT
 AAAGTGTGAATAAAAGGTATGTTTACTCATTTTTCTGAACACTGTGTTGGTAATGTGCA
 TCATGACAATTTCCAGTGAAGGTGAGCTGGAGCTGGTTGGACTAATGAGACTGAGGAAGC
 AGCTTTTCTACGATCTGCATTATGTAATCACAGGTCCAGAGAGCTTTATGGAAGCGGGA
 GAGGAGGAGCACTTACTCATGTTGTATTTGTTAATGGAGGATGTCATCTTTTCATAGATG
 CTGGAAGTAGAGTGCACTTGTAGATGCTAAAGGTTTGAGCTTTACACAAAATGTCTTCA
 TCTGTATTTGTTATTGTCTACAATATATTTGAATTTGGGGCAGCATATTAAGATGTAATG
 GCCTGTTATGTCTTGAAAATACTTGTTTTGCTCTTCAGGCATACTGCATTCTGTGGAT
 CAGTTTGAACAGCTTCTCCACCTTATTTGGACAGTGATAAATTGAA CCAAGAGTGTAGAT
 TTACAAGTGTAACTTTCAAAGAGGAAGAAGTATTTGGGGTCTGTAGGTAATGAACAGTC
 ACACCAAATAGACTATGATGCTTTTGTAAAGAAAGGTTTCATGTTTTAGATATTTCCG
 TGTCTAAATAATTTTCAATAATCTATAATCCCTAAAATGCAATAAAAAGTAGTATGTTT
 T

Gene 311. >ENST00000328081 cDNA sequence

GGGGTGAAGCCATACAAATGTAAACAATGTGAGAAAACCTTCATTTCTCTCAAAATGTC
 CAAAGACACATGGTAACACACACTGGTAAACAGGCCTCATAAATGTAAGAAATGTGGGAAG
 ACATTTAAGTTTCTCTATTTACTTCAAAGACACAAAGTAATTTACAACGGAGAAAAACCC
 TGTGAATGGAAGAAAGGTGGTAAAGCCTTGAGATTTTGAGTTATTTTCAAAAACATAAA
 AGAACTCACAGTGGGGAAAAACCTTATAAATGTGAGAAATGTGAGAAAGCCTTTGGACAT
 TCTGGTTACCTTCATAACCATAAAGGTGCTCATGCTGAAGAGAAACCCCGTGAATGTAGG
 AAATGTGGGAAACGATTTCAGTTTTTTGTAGTTACTTTCAAAGACATAAAGAGCTCTGTGAA
 AAATCTTCCATGTGTTTAAAGAAATATGGTAAAAGACTCACTCTTTCCAGTTCCATTGAGA
 AACATAAAAGAAATAATACTGGAGAGAAACCTTATAAATGTAAGAAATGTAGCAAAGCCT
 TCAGTCATCCCGCTCCATGTGAAGACATCAAAGAACACATATTGGAGAGAAATCCTATA
 ACTGTAAAAAATGTGGCAAAGCCTTCAGTCAACACAGTTCCCTTAGAAGACATGAAAGAA
 CTCATACTGGAGAGAAACCAATGAATGTCAAAAATGGGATAAAGGCTTCAGTCGACATT
 CCAGTTCTCTATGTAAACATGAAAGAACTCACACTGGAGAGGAACCTTTGACTGTAAGG
 AATGTGGTCAAGTCTTCAGACATTCCAGTTCTCTACGTAAACATGAAAGAACTCACACTG
 GAGAGAAACCTTTGACCGTAAGGGATGTGGTCAAGTCTTCAGACATTCCAATTCTCTAT
 GTAAACATGAAAAATCTCACACTGGAGAGAAACCTTTGACTGTAAGGAATGTGGTCAAG
 TCTTCAGACATTCCAGTTCTCTATGTAAACACGGAAGAACTCACACTGGAGAGAAACCT
 TTGACTGTAAGGGATGTGGTCAAGTCTTCAGACATTCCAGTTCTCTATGTAAACATGAAA
 AATTTCACTGGAGAGAAACCTTTGACTACTTGCAATGTGGTGAAGTCTTCAGATATT
 CCAGTTCTCTATGTAAACATGAAAGAACTCAAACCTGGAGAGAAACCTATGACTGTAAGG
 CATGTGGCAAAGCCTTTAGATATTCCAGTCCTGTATGTAAACATGAAAAAAGTCACTCTC
 TGTAGAAATCCTGAGAATGTAAGGATTTGGGGAAAAACATTAGTTAATTAGTTATCTTT
 GAAAACATGAAAGAAATTATACTGGAG

Gene 312. >ENST00000292641 cDNA sequence

CGCGCCCCGAGCCCCCGCGCCATGAAGCTCGCCGCCCTCCTGGGGCTCTGCGTGGCCCTG
 TCCTGCAGCTCCGCTGCTGCTTTCTTAGTGGGCTCGGCCAAGCCTGTGGCCAGCCTGTC
 GCTGCGCTGGAGTCGGCGGCGGAGGCCGGGGCCGGGACCTGGCCAACCCCTCGGCACC
 CTCAACCCGCTGAAGCTCCTGCTGAGCAGCCTGGGCATCCCGTGAAACCACTCATAGAG
 GGCTCCCAGAAGTGTGTGGCTGAGCTGGGTCCCAGGCCGTGGGGGCCGTGAAGGCCCTG
 AAGGCCCTGCTGGGGGCCCTGACAGTGTGTTGGCTGAGCCGAGACTGGAGCATCTACACCT
 GAGGACAAGACGCTGCCACCCGCGAGGGCTGAAAAACCCG CCGCGGGGAGGACCGTCCA
 TCCCCTTCCCCGGCCCCCTCTCAATAAACGTGGTTAAGAGC

Gene 313. >ENST00000261951 cDNA sequence

CTTTTCTTAACAGGCATGCCCAAAGAAAAATACGAGCCCCCTGACCCTCGGAGGATGTAT

FIGURE 1 (CONT'D)

ACAATTATGTCTTCTGAGGAAGCAGCAAATGGAAAGAAATCCCACTGGGCAGAGCTTGAA
ATAAGTGGAAAAGTAAGAAGCTTAAGCGCATCTTTGTGGTCACTAACTCACCTGACAGCT
TTGCATTTGAGTGACAATTCCCTGTCCGAATTCCTTCAGACATTGCCAAGCTTCACAAT
CTGGTGTATTTGGACCTGTCTATCTAATAAAATTCTGTAGCTTACCCGCAGAACTCGGAAAC
ATGGTATCACTCAGGGAGCTCCATTTAAATAACAACCTGTTACGAGTTCTACCTTTTGAG
CTGGGAAAACCTGTTTCAGTTGCAGACTTTAGGCCTGAAAGGAAATCCCCTTACCCAGGAT
ATATTGAACCTTTATCAGGAACAGATGGAACAAGACGGCTGCTGAACTATTTGCTTGAT
AATTTGTGAGGTACTGCAAAAAGAATTACAACAGAACAACCACCTCCAAGGTCTTGATT
ATGTTACAAGAACCAGATAGGACAAGGCCAACTGCCTTGTTTTCTGTCTATGTGCTATAAT
GTTCTTTGTGATAAATATGCGACCCGGCAGTTATACGGCTACTGTCCATCATGGGCGCTA
AACTGGGACTACAGGAAAAAGGCCATTATTCAAGAAATCTTGAGCTGCAATGCTGATATC
GTAAGTCTTCAGGAGGTTGAAACGGAACAGTATTACAGTTTTTTTTCTGGTAGAGCTGAAA
GAACGTGGCTATAATGGAATCTTCAGTCCTAAGTCTAGAGCTAGGACAATGTGAGAACAA
GAAAGGAAACATGTTGATGGCTGTGCAATATTCTTCAAGACAGAAAAATTTACTTTGGTT
CAGAAACACACTGTTGAATTTAATCAGCTAGCCATGGCAAATCTGAGGGGTCTGAAGCT
ATGCTGAACAGAGTCATGACAAAAGATAACATTGGGGTTGCAGTACTGCTAGAACTTCGG
AAGGAATCGATTGAAATGCCGTCCGGAAGCCACATCTTGGAACAGAAAAACAATTATT
CTTGTGGCTAACGCCACATGCATTGGGACCTGAATACTCTGATGTGAAGTTGGTACAA
ACTATGATGTTCTCTCAGAAAGTGAAGAACATTATTGATAAAGCCTCTCGCAACCTCAA
TCCAGTGTTTTGGGAGAATTTGGAACATTCCACTTGTGTTATGTGCAGATCTTAATTCT
TTGCCAGACTCTGGTGTGTAGAATATTTGAGCACAGGTGGAGTAGAAACAAATCAGAAA
GACTTTAAGGAGTTGAGGTATAATGAAAGTCTCAGAACTTCAGCTGTCTATGGGAAGAAT
GGAAACCAATGGAAGGATCACTCATGGTTTTCAAGTTACAGAGTGCTTATGAGAGTGGC
CTGATGCCTTACACGAATTACACATTTGATTTCAAGGGTATAATAGACTACATTTTCTAT
TCTAAACCTCAGCTGAACACCTTAGGCATCCTGGGCCCTCTGGACCACCACTGGCTGGTT
GAGAATAACATCAGTGGCTGCCCCGACCCCCCTCATCCCTCTGACCACTTCTCACTTTTT
GCACAACCTGGAGCTCTTACTGCCTTTCTCTGCCCCAAGTCAACGGCATCCACCTTCCTGGC
AGGAGGTAG

Gene 314. >ENST00000261937 cDNA sequence

CCCACGCGCAGCGGCCGGAGATGCAGCGGGCGCCGCGCTGTGCCTGCGACTGTGGCTCT
GCCTGGGACTCCTGGACGGCCTGGTGAGTGGCTACTCCATGACCCCCCGACCTTGAACA
TCACGGAGGAGTCACACGTCATCGACACCGGTGACAGCCTGTCCATCTCCTGCAGGGGAC
AGCACCCCCTCGAGTGGGCTTGGCCAGGAGCTCAGGAGGCGCCAGCCACCGGAGACAAGG
ACAGCGAGGACACGGGGGTGGTGCGAGACTGCGAGGGGCACAGACGCCAGGCCCTACTGCA
AGGTGTTGCTGCTGCACGAGGTACATGCCAACGACACAGGCAGCTACGTCTGCTACTACA
AGTACATCAAGGCACGCATCGAGGGCACCACGGCCGCCAGCTCCTACGTGTTCTGTGAGAG
ACTTTGAGCAGCCATTTCATCAACAAGCCTGACACGCTCTTGGTCAACAGGAAGGACGCCA
TGTGGGTGCCCTGTCTGGTGTCCATCCCCGGCCTCAATGTACGCTGCGCTCGCAAAGCT
CGGTGCTGTGGCCAGACGGGCAGGAGGTGGTGTGGGATGACCGGCGGGGCATGCTCGTGT
CCACGCCACTGCTGCACGATGCCCTGTACCTGCAGTGCAGACCACTGGGGAGACCAGG
ACTTCCTTTTCAACCCCTTCTGGTGACATCACAGGCAACGAGCTCTATGACATCCAGC
TGTTGCCCAGGAAGTGCCTGGAGCTGCTGGTAGGGGAGAAGCTGGTCCTGAACTGCACCG
TGTGGGCTGAGTTTAACTCAGGTGTACCTTTGACTGGGACTACCCAGGGAAGCAGGCAG
AGCGGGGTAAGTGGGTGCCCGAGCGACGCTCCAGCAGACCCACACAGAACTCTCCAGCA
TCCTGACCATCCACAACGTCAGCCAGCACGACCTGGGCTCGTATGTGTGCAAGGCCAACA
ACGGCATCCAGCGATTTCCGGAGAGCACCGAGGTCAATTGTGCATGAAAATCCCTTCATCA
GCGTCGAGTGGCTCAAAGGACCCATCCTGGAGGCCACGGCAGGAGACGAGCTGGTGAAGC
TGCCCGTGAAGCTGGCAGCGTACCCCCCGCCCGAGTTCCAGTGGTACAAGGATGGAAAGG
CACTGTCCGGGCGCCACAGTCCACATGCCCTGGTGCTCAAGGAGGTGACAGAGGCCAGCA
CAGGCACCTACACCCTCGCCCTGTGGAACCTCCGCTGCTGGCCTGAGGCGCAACATCAGCC
TGGAGCTGGTGGTGAATGTGCCCCCAGATACATGAGAAGGAGGCCTCTCCCCCAGCA
TCTACTCGCGTCACAGCCGCCAGGCCCTCACCTGCACGGCCTACGGGGTGGCCCTGCCTC
TCAGCATCCAGTGGCACTGGCGGCCCTGGACACCCCTGCAAGATGTTTGCCAGCGTAGTC
TCCGGCGGCGGCAGCAGCAAGACCTCATGCCACAGTGCCGTGACTGGAGGGCGGTGACCA

FIGURE 1 (CONT'D)

CGCAGGATGCCGTGAACCCCATCGAGAGCCTGGACACCTGGACCGAGTTTGTGGAGGGAA
 AGAATAAGACTGTGAGCAAGCTGGTGATCCAGAATGCCAACGTGTCTGCCATGTACAAGT
 GTGTGGTCTCCAACAAGGTGGGCCAGGATGAGCGGCTCATCTACTTCTATGTGACCACCA
 TCCCCGACGGCTTCAACATCGAATCCAAGCCATCCGAGGAGCTACTAGAGGGCCAGCCGG
 TGCTCCTGAGCTGCCAAGCCGACAGCTACAAGTACGAGCATCTGCGCTGGTACCGCCTCA
 ACCTGTCCACGCTGCACGATGCGCACGGGAACCCGCTTCTGCTCGACTGCAAGAACGTGC
 ATCTGTTTCGCCACCCCTCTGGCCGCCAGCCTGGAGGAGGTGGCACCTGGGGCGGCCACG
 CCACGCTCAGCCTGAGTATCCCCCGCTCGCGCCGAGCACGAGGGCCACTATGTGTGCG
 AAGTGCAAGACCGGCGCAGCCATGACAAGCACTGCCACAAGAAGTACCTGTGGTGACAGG
 CCCTGGAAGCCCTCGGCTCAGCGAGAACTTGACCGACCTCCTGGTGAACGTGAGCGACT
 CGCTGGAGATGCAGTGCTTGGTGGCCGGAGCGCACGCGCCAGCATCGTGTGGTACAAAG
 ACGAGAGGCTGCTGGAGGAAAAGTCTGGAGTCGACTTGGCGGACTCCAACCAGAAGCTGA
 GCATCCAGCGCGTGC CGAGGAGGATGCGGGACGCTATCTGTGCAGCGTGTGCAACGCCA
 AGGGCTGCGTCAACTCCTCCGCCAGCGTGGCCGTGGAAGGCTCCGAGGATAAGGGCAGCA
 TGGAGATCGTGATCCTTGTTCGGTACCGGCGTCATCGCTGTCTTCTTCTGGGTCTCTCTCC
 TCCTCATCTTCTGTAACATGAGGAGGCCGGCCACGCAGACATCAAGACGGGCTACCTGT
 CCATCATCATGGACCCCGGGGAGGTGCCTCTGGAGGAGCAATGCGAATACCTGTCTTACG
 ATGCCAGCCAGTGGGAATTCCTCCGAGAGCGGCTGCACCTGGGGAGAGTGCTCGGCTACG
 GCGCCTTCGGGAAGGTGGTGGAAAGCCTCCGCTTTCGGCATCCACAAGGGCAGCAGCTGTG
 ACACCGTGGCCGTGAAAATGCTGAAAGAGGGCGCCACGGCCAGCGAGCACCGCGCGCTGA
 TGTGCGAGCTCAAGATCCTCATTACATCGGCAACACCTCAACGTGGTCAACCTCCTCG
 GGGCGTGCACCAAGCCGAGGGCCCCCTCATGGTGATCGTGGAGTTCTGCAAGTACGGCA
 ACCTCTCCAATTCTGCGCGCCAAGCGGGACGCCTTCAGCCCCTGCGCGGAGAAGTCTC
 CCGAGCAGCGCGGACGCTTCCGCGCCATGGTGGAGCTCGCCAGGCTGGATCGGAGGCGGC
 CGGGGAGCAGCGACAGGGTCTCTTTCGCGCGGTTCTCGAAGACCGAGGGCGGAGCGAGGC
 GGGCTTCTCCAGACCAAGAAGCTGAGGACCTGTGGCTGAGCCCGCTGACCATGGAAGATC
 TTGTCTGCTACAGCTTCCAGGTGGCCAGAGGGATGGAGTTCCTGGCTTCCCGAAAGTGCA
 TCCACAGAGACCTGGCTGCTCGGAACATTCTGCTGTTCGGAAGCGACGTGGTGAAGATCT
 GTGACTTTTGGCCTTGCCCGGGACATCTACAAAGACCCCGACTACGTCCGCAAGGGCAGTG
 CCCGGCTGCCCCCTGAAGTGGATGGCCCCCTGAAAGCATCTTCGACAAGGTGTACACCACGC
 AGAGTGACGTGTGGTCTTTTGGGGTGCTTCTCTGGGAGATCTTCTCTCTGGGGGCTCCC
 CGTACCCTGGGGTGAGATCAATGAGGAGTTCTGCCAGCGGCTGAGAGACGGCACAAAGGA
 TGAGGGCCCCGGAGCTGGCCACTCCCGCCATACGCCGCATCATGCTGAACTGCTGGTCCG
 GAGACCCCAAGGCGAGACCTGCATTCTCGGAGCTGGTGGAGATCCTGGGGGACCTGCTCC
 AGGGCAGGGGCTTGCAAGAGGAAGAGGAGGTCTGCATGGCCCCGCGCAGCTCTCAGAGCT
 CAGAAGAGGGCAGCTTCTCGCAGGTGTCCACCATGGCCCTACACATCGCCAGGCTGACG
 CTGAGGA CAGCCCGCAAGCCTGCAGCGCCACAGCCTGGCCGCCAGGTATTACAACTGGG
 TGTCCTTTCCCGGGTGCTGGCCAGAGGGGCTGAGACCCGTGGTTCTCTCAGGATGAAGA
 CATTTGAGGAATTCCTCATGACCCCAACGACCTACAAAGGCTCTGTGGACAACAGACAG
 ACAGTGGGATGGTGTGGCCTCGGAGGAGTTTGGAGCAGATAGAGAGCAGGCATAGACAAG
 AAAGCGGCTTCAGCTGTAAAGGACCTGGCCAGAATGTGGCTGTGACCAGGGCACACCCTG
 ACTCCCAAGGGAGGCGGCGGCGGCTGAGCGGGGGGCCCCGAGGAGGCCAGGTGTTTTACA
 ACAGCGAGTATGGGGAGCTGTGCGAGCCAAGCGAGGAGGACCACTGCTCCCCGTCTGCCC
 GCGTGACTTTCTTACAGACAAAGCTACTAAGCAGCATCGGACAAGACCCCGCACTT
 GGGGGTTTCAAGCCCGGCGAGGGCGGGCAGAGGGCTGGAGGCCAGGCTGGGAACTCATCTG
 GTTGAACCTCTGGTGGCACAGGAGTGTCTCTTCCCTCTCTGCAGACTTCCAGCTAGGAA
 GAGCAGGACTCCAGGCCCAAGGCTCCCGGAATTCGTCAACACGACTGGCCAGGGCCACG
 CTCCAGCTGCCCCGGCCCCCTCCCCCTGAGATTGAGATGTCAATTTAGTTTCAGCATCCGCAG
 GTGCTGGTCCCGGGGCCAGCACTTCCATGGGAATGTCTCTTTGGCGACCTCCTTTCATCA
 CACTGGGTGGTGGCCTGGTCCCTGTTTTCCACGAGGAATCTGTGGGTCTGGGAGTACA
 CAGTGTGGAGGTTAAGGCATACGAGAGCAGAGGTCTCCCAAACGCCCTTTCCTCCTCAG
 GCACACAGCTACTCTCCCCACGAGGGCTGGCTGGCCTCACCCACCCCTGCACAGTTGAAG
 GGAGGGGCTGTGTTTCCATCTCAAAGAAGGCATTTGCAGGGTCTTCTTCTGGGCCTGACC
 AAACAGCCAACTAGCCCCTGGGGTGGCCACCAGTATGACAGTATTATACGCTGGCAACAC

FIGURE 1 (CONT'D)

AGAGGCAGCCCGCACACCTGCGCCTGG

Gene 315. >ENST00000274773 cDNA sequence

CTGCAGCCTGCCTGGAAGCTGAAGGAAAGGTGGGGGCATTGTAGGACACCTTGAACCCAG
GTCTCCCAACTTTCACAGGACTCCCTTCCCTCCGCCAGGAGTTTAAAGGAAGAGGAACCTC
CTGGTGGGACATATTGAGTGCCAAACGTGTGTTACATAAAAAATCAAGAGATCAGGGCA
TGAGTCTGCATCTGAAAACTCGAGTAAAAAATCCGGTGTATGCTGTTAATGGAAAGAACA
GAATATGACACTTGCATGCCGCATATTCTCACTTCGTTCCCTTGGGGGTGTGCTGCTACCT
CTGGTCACTGGCATCGGACTTTTCTTCTTCTTCTACTTTCCTACATCTCCCAAGTTTT
GTATTTTGGAGCATGTGTTAGCATTATAACTGCTAAACAGGAAAGATGGCCTTTAAAAAGA
AAGTGAAGTGTAAAAGTTTGGGGTGATGAAATAAATGTGCTTGAGGAAGAAAAAGCAAT
CTCAGTTTAAATCCTATGGTTGCCCGAGGAGGCACTAATTTATCCCTTCTGCTTTTCAAGT
GAGGAAGCTGCAGCTTGGCGTAGTTCTGGGGGAGTATGAAGCTGCCTTGGTTTAGGTGA
TGGAGCA CAGGTCCACAGACATGTGTGGGTGCATCTGTGGCAGGGGAGAAAAGAGCATGT
GTCCAGACTACAGCTTGTTT CAGAGCTGGGACACTGACAATAGAGCACGCACTGCGTGCCT
AGGTGGGTGTGTCTCCGATCCTCCAGCAGTGACAGGGACGAAGCCTTGGCCTGTGGGATG
ACTCAGGCCACTGGCCAAATGTTATGTCTCCATGTTCAAGTCCCTCTCCAACCTTCTCTC
CTGGGACAGAAACAGATGGCAGCGGAGCAGGAGAAGGTGGGGGCAGAGTTCCAGGCACTG
AGGGCTTTTCTGGTGGAGCAGGAGGGTGGGCTGCTAGGCCGCCTGGAGGAACTGTCCCGG
GAGGTGGCACAGAAGCAGAATGAGAACCTGGCCAGCTCGGGGTTGAGATCACCCAGCTG
TCCAAGCTCAGCAGCCAGATCCAGGAGACAGCTCAAAAGCCTGACCTTGACTTTCTCCAG
GAATTCAAAGACACGCTGAGCAGGTGTAGCAATGTGCCTGGCCCCAAGCCAACACAGTC
TCTTCTGAGATGAAGAATAAAGTCTGGAATGTTTCTCTCAAGACCTTTGTCTTAAAAGGG
ATGCTGAAGAAGTTCAAAGAGGACCTTGGGGAGAGCTGGAGAAAGAGGAGAAAGTGGAG
CTCACCTTGGATCCCGACACGGCCAACCCGCGCCTCATCTCTCTGATCTTAAGGGC
GTGCGCCTCGGCGAGCGGGCCAGGACCTGCCCAACCAACCCCTGCCGCTTCGACACCAAC
ACCCGCGTCTCTGGCGTCTCTGCGGCTTCTCTCTGGGCCGGCATCACTGGGAGGTGGAGGTG
GGCTCTAAGGACGGCTGGGCCTTTGGCGTGGCCCGGAGAGCGTGCGCCGAAAGGGCCTG
ACGCCCTTCACTCCCGAGGAGGGCGTCTGGGCCCTGCAGCTCAACGGCGGCCAGTACTGG
GCCGTGACCAGCCCCGAGCGGTGCGCCCTCAGCTGCGGGCACCTGTGCGCGTGCAGGGTG
GCCCTGGACCTGGAGGTGGGAGCCGTGTCTTCTACGCTGTGGAGGACATGCGCCACCTC
TACACCTTCCGCGTCAACTTCCAGGAGCGCGTGTTCCTGCTTTTCTCTGTTTGTCTCCAG
GGCACTACTTGCGAATCTGGCCTTGAGGGGCACTGCTGGGGAGCTCCTGTCTCTGGGCT
GCCGGTGGGAGGGGATGTGCGCTCCCCAGAGATGCCTGGTCCGTCTTGGGTCTGCCCTCC
GTGCTCCTGACCCCTGCTGCCCAAGAGAGCCTGCTACAGACA CAACCCCGAGGCAGGAGA
GTGACTGTGGCCAACCGAGCAGGGGAACAGGGGCTTTGGACTCCTGAGGGTGTTCCTTCT
CTGAGGT CACATGTGGATTTTGGCCAGAGCCTT CAGGAGGTGGAGGCCGGT GAGGT CAGGA
GCCAGCTCTCCAGGGGGCTTCTGCCCTGACTGGGAAGGGTGCTGGCTCCCTAAAACAA
TGTCAAAGCCAGTCCTGCTGTTCTCTGTTGCCAGGGGGCAGGTCTGGGCCTGGGCCAACC
ACGTTTGTATTATCATGGCTGCTGCCTTCTGGACAGCTGCCAGCTCTGCCTTGAGAGGTTGT
GGGACCTCTGGATCCAGCTGACCTGACAGGT CATCTACTCAGGGAGGAGCCCTGTGCTCC
CAGCTCAGAGGACAGTCTGGGCCAGAACTGGAAGGAGACA

Gene 316. >ENST00000327725 cDNA sequence

AATTTTAGAAGGAAAAAATTTATTTCAGATGATGTGATAGCCATGTCACTGTTAAGCCTGA
ACTTTTCTTCTCTGGGTGGTGTGAAAGGTGCAAGAAAACACAAGCTGCTTTTAAATAACAC
TCTTGCACTGCTTTCTCCCCAAAGCTAGATATATCAAAACATTAAAAAATAAAAAAGCTT
TTTAAAGGTGTAAGGAGCAAATGGAATAGTGGATAAAGCCTTTTCATCTGTTTAGTCATTT
TACACCCAAGTTTCTCTGGAGTATTTGCCTGGAAGTTTCTAATCAAAACCATTAGACTTT
GAGTTTCACAAACCTCTCTTGAAGCTCTTCCAGTGAGGCCTGCACATCGGTATGAAACAC
ATTCTTTCCAAAAGCTACCACTGGTAGATTTTAAAGAACAGCTCAGGAGCACATCACTCA
AAATAATTCCAAGTATTTCACTTTTCCCTTCAAATAACACTTCATGAATCTGGTCCTTG
AAAGACTAGCCAAGAAAATTAGACATTTT TAGCATTAGTTTGCTCATACATACATTTGCT
ATATTTTATGGTTGTATTTTGGCAAGTTTGTGTTGATGTATTT CATAATGAACGGCGA
AATTGGTGTGTTGCCATTGACATTT CAGTGTCAATGTATTTTAAAGCTT CAGTGTGTTAAA
ACTCTGTTGAAAATTTTAACTTTTGAATGTTCAAGTATAGATTATTTTTCATTGTTCTT

FIGURE 1 (CONT'D)

CCAACCTTGGGGTTGTTCTGTCCACAAGTTCAGCAGAATCCGTTTTTCTTTGGCAACCAA
GAAACTTCAATATGTAAACAGAAAACATGGAATGGCATTAGATCTTCAAAAAGCAGGGCA
AACTGGAATGGAATGTACTGTTTCTCACAGTGGTCTATGCTGACAGCAAGGCTGAAGATT
TCCAGTAGGTTATGGGTAATCAGTGAAAGTTCATGCTTGGTGGTGACAGCTGCAGTACAT
CTTGAATACCAGTTTTCTTCAATCTTTGCCAAAAACCAAATTTAACACAGTTTGCTGTA
GTGCCATTAAAGATATACTCCTATACAATTTCTCCAACCTCGGTTCAATTTGATACAGCTGC
AAAAATACTGTCTTTGGTGGTCAAGTAGAAGGCTCACGAAAACAGCACACCCACAGTTTT
GAAAGCCTTATTCTGAATGTAAGCAAAGTACAGTTTTCTTCATCAGTAGATTCACTCAA
CCAACAGCAATAAAAGATGAGCCGATTTTTTTTTTTTTTTTGGAGATGGAGTCTTGCTCTAT
TGCCAGGCTGGAGTGAGTGGCTCAGTCTCGGCTTACTGCAAGCTCCGCTCCAGGTT
CATGTCAATCTCCTGCCTCAGCCTCTTGCGAGCTGATGTTTTTTAAGATCTGAAGTTTGA
TATATACAGTCATTAAATTAGAGTTAAGACTGCAGAAGTAGATGAAGAAATTCTGGAATT
CCTTAATTTATTTGTGGCAGCACTCAGAATGCAAGGTTTACAAGTGTCTCCATTTTTTT
CTCCTTTGCAATTAAGGGCTGTTTAATATTAAGCTTTACGGCTTGGAAGATTCCTGT
GAATATTTCAATACTGTCCAGTCTTAAAGCTGCAGAGAATCGGGCTTTGCAGAACACTCC
ACTGTTTTTAATGGCATGAATTTAACAGTGTTGGCATGGTGTCACTGCCCAACACTTTC
AGATAACTCAACTGAAGAAGTTGACCTATCTTCTGCAAAATAACATGAGTATATACTTG
AGAAAAGCCTCAACATTTTTTTTTTTGGCTGCCATTTTAGCTACCTCAAAGGAGATAACAG
AAAAACAAGGAGTACTGATGATGGAAGCATCTGGTCCCTCTTGAGAGTGATGAATGATT
TTATTGGTGGCAGCTGGGTGGCAGGACAATCCAGGCATCCAGTTATGCCTGATCCCAAT
AAGTGAAATCTTTGTTCAATTTCTTTTATACACCCGTCTGCTTCTTAAACCTGACACC
ATTTAATGGTGCCCTTGGTCAAATCTAAATGATCTTACTTTTATAAATTCTTTGATTCTAG
CTTGAGAGTCAAGACGAACTCTAACTCATGGGATGGACAAACTGGAAGATGTAAAATAA
GTAAGGCTTTCTGGGCCAAAAGCCTCTTCTACAGAAAATCAAATTTTAAAAGAACATT
GACCTCAA

Gene 317. >ENST00000315712 cDNA sequence

ATGAAAATAAATGACAGCTCAGGGGAAGACTTCATCTTAGTTGGCTTCTCAGAATATCCC
CAGGCTGAGTTCATCCTTTCTCTGTTTGTCTCCGGGTTCTACACCATGACATTCACAGGG
AACACAGCCATCATCTTGGTCTCTCTGCTGGAATACCGGCTCCGCACCCCAATGTACTTC
TTCCTCCGAAAGCTCTCATTTCTGGACATGTGTTTCAACACCTGCATTGTCCTTCAGATG
CTGGTGAACATCTGGGGAGAGAGTAAGAAGGTGAGCTATGTAGGCTGCATGGTTGAGTAT
TCTGTAGCCTTGGCTCTTGGCTCCACAGACCTTGTCTCGGTTTTCTGGGTTAGCCAATC
TCTCTTTCACTCTTCACTAACACCATTTTTGCCTCTGTGTGGCCACCGCCGTGTGGACCA
TTTCTTTGTGAGGTCTGCTCATTGTCAAGCTGTCTGCGTGGACACCGGCCCAACTGAA
TTGAAGATGTTAATTGCTCGTGTGATCATCCTTGCCCTTCCAGTGTGCACCATCCTCACC
TCCTATGCCTGCATTGCCAGGGCTGTGCTGAGGCTGCAGTCTGCTGAAGGTGAGCAGAAG
GCCTTTGGGACTTGTGCCTCCACCTGATGGTGGTCTTGCTGTTCTATGGAACCATCATG
TTCATGTGTCTTCAGCTGAAGAGTAACTACTCTCAGATTACAGGGAAGCTGCTTCCTCTT
GTTTATACCATTGCTGCCCCACCTAG

Gene 318. >ENST00000315073 cDNA sequence

CTGGCGCGGGGTGGGACACCCCCATGCGGGATGAAGACTACGAGGGTGACATGGAGGAGG
AGGTCGAGGAGGAAGAAGAGGGTGTGTTCTGGACAGTGGCATGAGCAGGTCCAGCTGGG
ACAACATGGAATATGTGTGGGAGGAGGAGGACGAGGAGGAAGACCTGGACTACTACTTGG
GGGACATGGAGGAGGAGGACCTGAGGGGGGAGGATGAGGAGGACGAGGAGGAAGTGCTGG
AGGAGGTTGAGGAAGAGGATCTAGACCCCGTACCCCACTGCCCCGCCTCCAGCCCTC
GGAGGTGCTTCACATGCCCTCAGTGCCGAAAGAGCTTTCTCGGCGGAGCTTCCGCCCCA
ACCTGCAGCTGGCCAATATGGTCCAGGTGATTCGGCAGATGCACCCAACCCCTGGTGGAG
GGAGCCGCGTGACCGATCAGGGCATCTGTCCCAACACCAAGAAGCCCTGAAGCTCTTCT
GCGAGGTAGACGAAGAGGCCATCTGTGTGGTGTGCCGAGAATCCAGGAGCCACAAAAGC
ACAGCGTGGTGCCATTGGAGGAGGTGGTGCAGGAGTACAAGGCCAACTGCAGGGGCACG
TGGAACCACTGAGGAAGCACTGGAGGCAGTGAGAAGATGAAAGCCAAGGAGGAGAGGC
GAGTGACAGAACTGAAGAGCCAGATGAAGTCAGAGCTGGCAGCGGTGGCCTCGGAGTTTG
GGCGACTGACACGGTTTCTGGCTGAAGAGCAGGCAGGGCTGGAACGGCGTCTCAGAGAGA
TGCATGAAGCCCAGCTGGGGCGTGCAGGAGCCGCGGCTAGTCGCTTGAGAACAGGCCG

FIGURE 1 (CONT'D)

CCCAGCTCAGCCGCCTGCTGGCAGAGGCCAGGAGCGGAGCCAGCAGGGGGGTCTCCGGC
TGCTCCAGGACATCAAGGAGACTTTCAATAGGTGTGAAGAGGTACAGCTGCAGCCCCCAG
AGGTCTGGTCCCCTGACCCGTGCCAACCCCATAGCCATGACTTCCTGACAGATGCCATCG
TGAGGAAAATGAGCCGGATGTTCTGTGAGGCTGCGAGAGTGGACCTGACGCTGGACCCTG
ACACGGCTCACCCGGCCCTGATGCTGTCCCCTGACCGCCGGGGGGTCCGCCTGGCAGAGC
GGCGGCAGGAGGTTGCTGACCATCCCAAGCGCTTCTCGGCCGACTGCTGCGTACTGGGGG
CCCAGGGCTTCCGCTCCGGCCGGCACTACTGGGAGGTAGAGGTGGGCGGGCGGCGGGGCT
GGGCGGTGGGTGCTGCCCGTGAATCAACCCATCATAAGGAAAAGGTGGGCCCTGGGGGTT
CCTCCGTGGGCAGCGGGGATGCCAGCTCCTCGCGCCATCACCATCGCCGCCGCCGGCTCC
ACCTGCCCCAGCAGCCCTGCTCCAGCGGGAAGTGTGGTGGTGGGCACCAACGGCAAAC
GCTATCAGGCCAGAGCTCCACAGAACAGACGCTGCTGAGCCCCAGTGAGAAACCAAGGC
GCTTTGGTGTGTACCTGGACTATGAAGCTGGGCGCCTGGGCTTCTACAAACGAGAGACTC
TAGCCACAGTGCACACCTTCTCGGCTGCCTTCTGGGCGAGCGTGTCTTTCCTTTCTTCC
GGGTGCTCTCCAAGGGCACCCGCATCAAGCTCTGCCCTTGATTATCCTGCCACCCGCAGG
GGCCCCCTCTGTGAGCACTTGGGGGGTGGGTGGTGGAGGGTGGCCGTAAGTTTGAGGGCT
CAAAGGCTCTTCCCCTGCTTGTACTGTGTTGCTTCCCCTCCCTTGACCCAGGCC
CCTGCTTCTCCCTCTAGGAGCCTAAAGAACCCTCCTGGCCTCCAGCTCAGCCTTCTCTCA
CCTACTATGTCTGTCCAACAGGTCTGCATGGGTCCCTGATAATGAGAACAGCTGCCTGGT
CTTCTCTCCCAGTCTGCCTAGCCCAGCCCTGGGACTGGAATTTGAGTAGGGGATGAGGGG
AAATTGTAATTTCACTTCTTAACCTTCTTTTCCCCACCCCTGCTCTTCAACCTCTTTATC
AGTTCTGAGGCTGGAGGGTTTGGGCAAGGCAACATCCCCATTCCAATTCATTTTCTGAT
GCAGATTTTAGCTGAGGGATTTGGAAGCCATTTGGGGAGGCAGGCTGGGCCAAAGGGTAG
AGCTGGGTAATAAATGTCTATTCTCCTGGGGAGGAGGGATTCTAAACTTTCTTCCGTCC
TCAATTTCTACCTCCATAGACCGGCCAGAATTTAGCTTCACTTGAGAGAGATCTGGAATG
GTCGCCATGATTGAAACCACGCACCATTACATCATCATTACATTAATTACATCAACATAA
ATTATTTCTTCCCCCTTCCCTTTTCCAGCACTCAACCAAGGAGCAAAGCTCATCCCACCC
CACACCCCTCCCAGGTCTGCTCACTGCCAGGCTCCTCTCCCCCTTTGTTTCACTGGAGCTGG
CTTTTCTCCCAGCCCTTTCCATGCCTTTCACTCCATTTGGCAAGCTCTGAGGGGGAGCC
TGGGGACGGGTTTGGGTCCCCAGGAGGAGAGCCTTGGGTATAATCTATTTTCTAGGAGC
CTCTTGCTTGTCACTTGAGCTTTCCGCCCTCTGCTTTGATGGCTGAGGTGAACTCATGT
TCTTTGGGAAAAGGGAAGGCGTGCTGTGGAAATAAAATGTTTATTTGCTTCTCT

Gene 319. >ENST00000312487 cDNA sequence

GGTGTGCGCCATCTGCCTCGATTACTTCACGGACCCCGTGTCCATCGGCTGCGGGCACAA
CTTCTGCCGAGTTTGTGTAAACCCAGTTGTGGGGTGGGGAGGATGAGGAGGACAGAGATGA
GTTAGATCGGGAGGAGGAGGAGGAGGACGGAGAGGAGGAGGAAGTGGAGGCTGTGGGGG
TGGCGCGGGGTGGGACACCCCATGCGGGATGAAGACTACGAGGGTGACATGGAGGAGGA
GGTCGAGGAGGAAGAAGAGGGTGTGTTCTGGACCAGTGGCATGAGCAGGTCCAGCTGGGA
CAACATGGA CTATGTGTGGGAGGAGGAGGACGAGGAGGAAGACCTGGACTACTACTTGGG
GGACATGGAGGAGGAGGACCTGAGGGGGGAGGATGAGGAGGACGAGGAGGAAGTGTGGA
GGAGGTTGAGGAAGAGGATCTAGACCCCGTCAACCCACTGCCCCCGCTCCAGCCCTCG
GAGGTGCTTCACTGCCCTCAGTGCCGAAAGAGCTTTCTCGGCGGAGCTTCCGCCCCAA
CCTGCAGCTGGCCAATATGGTCCAGGTGATTTCGGCAGATGCACCCAACCCCTGGTCCAGG
GAGCCGCGTGACCGATCAGGGCATCTGTCCCAAACACCAAGAAGCCCTGAAGCTCTTCTG
CGAGGTAGACGAAGAGGCCATCTGTGTGGTGTGCCGAGAATCCAGGAGCCACAAACAGCA
CAGCGTGGTGCCATTGGAGGAGGTGGTGCAGGAGTACAAGGCCAAACTGCAGGGGCACGT
GGAACCACTGAGGAAGCACCTGGAGGCAGTGCAGAAGATGAAAGCCAAGGAGGAGAGGCG
AGTGACAGAACTGAAGAGCCAGATGAAGTCAGAGCTGGCAGCGGTGGCCTCGGAGTTTGG
GCGACTGACACGGTTTCTGGCTGAAGAGCAGGCAGGGCTGGAACGGCGTCTCAGAGAGAT
GCATGAAGCCCAGCTGGGGCGTGCAGGAGCCGCGGCTAGTTCGCTTGACAGAACAGGCCGC
CCAGCTCAGCCGCTGCTGGCAGAGGCCAGGAGCGGAGCCAGCAGGGGGGTCTCCGGCT
GCTCCAGGTGTGAAGAGGTACAGCTGCAGCCCCAGAGGTCTGGTCCCCTGACCCGTGCC
AACCCCATAGCCATGACTTCTGACAGATGCCATCGTGAGGAAAATGAGCCGGATGTTCT
GTCAGGCTGCGAGAGGTGGACCTGACGCTGGACCCCTGACACGGCTCACCCGGCCCTGATG
CTGTCCCCTGACCGCCGGGGGGTCCGCCTGGCAGAGCGGCGGCAGGAGGTTGCTGACCAT

FIGURE 1 (CONT'D)

CCCAAGCGCTTCTCGGCCGACTGCTGCGTACTGGGGGCCAGGGCTTCCGCTCCGGCCGG
CACTACTGGGAGGGAGCCTAAAGAACCCTCCTGGCCTCCAGCTCAGCCTTCTCTCACCTA
CTATGTCTGTCCAACAGGACCGGCCAGAATTTAGCTTCACTTGAGAGAGATCTGGAATGG
TCGCCATGATTGAAACCACGCACCATTACATCATCATTACATTAATTACATCAACATAAA
TTATTTCTTCCCCCTTCCCTTTTCCAGCACTCAACCAAGGAGCAAAGCTCATCCCACCCC
ACACCCCTCCAGGTCTGCTCACTGCCAGGCTCCTCTCCCCTTTGTTTCAGTGGAGCTGGC
TTTTCTCCAGCCCTTTCCATGCCTTTCACTCCATTTGGCAAGCTCTGAGGGGGAGCCT
GGGGACGGGTTTGGGTCCCAGGAGGAGAGCCTTGGGTATAATCTATTTTTCTAGGAGCC
TCTTGCCCTTGTCACTTGCAGCTTTGCGCCTCTGCTTTGATGGCTGAGGTGAACTCATGTT
CTTTGGGAAAAGGGAAGGCGTGCTGTGGAATAAAATGTTTATTTGCTTCTC

Gene 320. >ENST00000327767 cDNA sequence

ATGGCTGGTTATGCCACTACTCCAGCCCCATGCAGACCCTTCAGGAGGAAGCGGTGTGT
GCCATCTGCTTGGATTACTTCAAGGACCCCGTGTCCATCAGCTGTGGGCACAACCTTCTGC
CGAGGGTGTGTGACCAGCTGTGGAGTAAGGAGGACGAGGAGGACCAGAACGAGGAGGAA
GATGAATGGGAGGAGGAGGAGGACGAGGAAGCGGTGGGGGCCATGGATGGATGGGACGGC
TCCATTGAGAGGTGTTGTATCGGGGAATGCTGACGAAGAGTTGTTCCAAGACCAAGAT
GACGATGAACTCTGGCTCGGTGACAGTGGTATAACTAATTGGGACAACTAGACTATATG
TGGGACGAGGAGGAAGAAGAAGAAGAGGAAGATCAGGACTATTACCTAGGAGGCTTGAGA
CCTGACCTGAGAATTGATGTCTACCGAGAAGAAGAAATACTGGAAGCATACGATGAGGAC
GAAGATGAAGAGCTGTATCCTGACATCCACCCGCTCCTTCTTGCCCTTCCAGGGCAG
TTCACCTGCCCCAGTGCCGAAAGAGCTTTACACGTCGCAGCTTTCTGTCCTCACTTGCAG
CTGGCCAACATGGTCAGATAAATCGCCAGATGTGCCCCACTCCTTATCGGGGAAACCGG
AGTAATGATCAGGGCATGTGCTTTAAACACAGGAAGCCCTGAAACTCTTCTGTGAGGTG
GACAAAGAGGCCATCTGTGTGGTGTGCCGAGAATCCAGGAGCCACAAACAGCACAGCGTG
CTGCCTTTGGAGGAGGTGGTGCAGGAGTACCAGGAAATAAAGTTGGAACAACCTCTGGTG
GGAATACTTCAGATAGAGCAAGAAAGCATTACAGCAAGGCCTATAATCAGTAA

Gene 321. >ENST00000274821 cDNA sequence

GGCGGGGGGCTTTTCTCTCTCTCTTTCACTGCAAGGCGGCGGCAGGAGAGGTTGTGGTGC
TAGTTTTCTCTAAGCCATCCAGTGCCATCCTCGTCGCTGCAGCGACACACGCTCTCGCCGC
CGCCATGACTGAGCAGATGACCCCTTCTGTCGACCCCTCAAGGGCCACAACGGCTGGGTAA
CCAGATCGCTACTACCCCGCAGTTCCTCGGACATGATCCTCTCCGCTCTCAGATAAGAC
CATCATCATGTGGAACCTGACCAGGGATGAGACCAACTATGGAATCCACAGCGTGCTCT
GCGGGGTCACTCCCACTTTGTTAGTGATGTGGTTATCTCCTCAGATGGCCAGTTTGCCCT
CTCAGGCTCCTGGGATGGAACCCCTGCGCCTCTGGGATCTCACAACGCAAGTAGCTGCTCA
CTTAGCTCTGGGGCTTTGGGAAGAATCTGGGCAGAAGGGCACCACCACGAGGCGATTTGT
GGGCCATACCAAGGATGTGCTGAGTGTGGCCTTCTCCTCTGACAACCGGCAGATTGTCTC
TGGATCTCAGATAAAAACCATCAAGCTATGGAATACCCTGGGTGTGTGCAAATACACTGT
CCAGGATGAGAGCCACTCAGAGTGGGTGTCTTGTGTCCGCTTCTCGCCCAACAGCAGCAA
CCCTATCATCGTCTCCTGTGGCTGGGACAAGCTGGTCAAGGTATGGAACCTGGCTAACTG
CAAGCTGAAGACCAACCATTTGGCCACACAGGCTATCTGAACACGGTGACTGTCTCTCC
AGATGGATCCCTCTGTGCTTCTGGAGGCAAGGATGGCCAGGCCATGTTATGGGATCTCAA
CGAAGGCAACACCTTTACACGCTAGATGGTGGGGACATCATCAACGCCCTGTGCTTCTAG
CCCTAACCGCTACTGGCTGTGTGCTGCCACAGGCCCCAGCATCAAGATCTGGGATTTAGA
GGGAAAGATCATTGTAGATGAACTGAAGCAAGAAGTTATCAGTACCAGCAGCAAGGCAGA
ACCACCCAGTGACCTCCCTGGCCTGGTCTGCTGATGGCCAGACTCTGTTTGTCTGGCTA
CACGGACAACCTGGTGCAGTGTGGCAGGTGACCATTGGCACAAGCTAGAAGTTTATGGC
AGAGCTTTACAAATAAAAAAAAAAACTGGC

Gene 322. >ENST00000308304 cDNA sequence

GCATCCCGGTGGGGAGAAGGGCCAGGCAGAGAAAAGTAGTCAGAAAACAGAGCAACAGGTG
AGGCTGAGGCAGGAGATTGAGCTGACACTCAAGCCAAGGAAGGGGGAATTAGGAAACAAT
TAGAAAAAAGTAAAGACAGTGAAAAAGTCAAGACAGCTGCCTGCACCTACACACACAT
TCAGAGACAGAGTCCAGAGGGTGGCATAACAGAGGGAGAAGGGGAGGGAAACAGGTGTG
GAGAGGAGCTGCGGAAGCAGAGAAATCTCAAGTCAGAGATTCAAGGACACTTGGTCCCCG
TGGCGAGCCATGGAAGCAGAAAGGAGGCGCCAGGCTGAGAAGCCAAAGAAGGGGCGAGTC

FIGURE 1 (CONT'D)

GGCAGCAACCTGTTGCCTGAGAGACACCCGGCCACTGGGACCCCGACCAACACGGTGGAC
TCGAGTGCTCCACCCTGCAGAAGGCTCCCTGGTGCAGGAGGGGGGAGATCAAGGTTCTCC
CCGCAAGGAGGACAGAGGGGCGCCCGCACTCCCGGCGCCGCCACCGCAACCTTCAGC
CCAGTGCAGTTGGAACAGCTGGAGTCAGCCTTTGGGAGGAACAGTACCCGACATCTGG
GCCCCGAGAGAGTCTTGCCCGGGACACTGGCCTCAGTGAGGCCGAATCCAGGTCTGGTTC
CAGAACCGCAGAGCTAAGCAACGGAAGCAAGAGCGCTCACTGCTTCAGCCTCTGGCCCAT
CTGTCTCCTGCCGCTTTTCCAGCTTCTTGCCAGAGTCCACTGCTTGCCCTATTCTTAC
GCAGCACCACCACCAGTGCCTGCTTCCCTCACCCCTACAGCCATGCCCTCCCTTCC
CAGCCCTCCACAGGAGGCGCCTTTGCTTTGTACACCAGTCTGAGGACTGGTACCCTACC
TTGCACCCAGCCCTGCCGGCCATCTGCCCTGCCCCCACCCTCCCCTGCTCCCCCTC
AGCCTTGAGCCATCCAAGTCTGGAAGTGAAGTCAAACAAGTACCACCAAGGTGATCCCC
AGCCTGCGGCCCTCGTGAAAAGACAAGAAAATGGGGTGGCTTCTTTCCATCTATGGGTG
AAGCAGATGCATGGTGAGGGTCAGCTCAGCGATTAGAAATTTAAAAATGGGAGATCATGG
TGAATTCTCACTGGGGTGATTAGTGGAGGAAGTCTGGGGAGGTGAGCTACTGGAAGAGAC
AGGGCAAGATGCCTCGGTGGAGCTGCCTGCTGAAGGGTGATATTGATGAAGACAGTTGCT
GGTGAGTGGAGATGATTGAAGGGCTAGGAGGTGAGGGCCTTCATTAATTGAGATCACGAT
TGAAGAAGATCCAGCTCTTTCTGGCTGATTTTCAAGTAAAGGCTTCTGACTTAAGAGTCTAC
CTATACATCCCTTCCCCATTGCCACCCCGCCATCTCAATCAGTCACTGACTTTTGTTTA
TTCTGTCTTAGAAATACCTTTTT

Gene 323. >ENST00000332215 cDNA sequence

CGCAGTGGCTGCCGCTCCTCGAGTTGGGGGCCCCCTCGGACACCGCCAGGCAGACGGCGA
GTACCGAGCGTGGGTGGCCGCGGTGTCCGTGGGCCACGCTCAGCTGCGGTGAGAGGCGAC
ATGAGCGTCCCCGGGGAGGACGAAGAGCTGGAGAGCGCCAAGGACGACGAGCGCAGCTGC
GGCCGCGAGTCCGACGAAGACACTGAGGATGCTAGTGAAACTGACCTGGCAAAGCATGAT
GAAGAAGACTATGGGGAAGTGAAGGAACAGATGTATCAGGACAACTGGCTTCTCTCGAG
AGGCAGTTGCAACAACACTACAAGAAGGTACATTACAGGAATATCAGAAGAGAATGAAAAA
CTAGGTGAGCAGTACAAAGAGAGGATACGGAATGCTGAACTCTTCTCAGCTGGAACT
GAACAAGTGGGACGAAATTACATGAAAGAAAAGAAGGCAGCAGTGAAGAATTTGAAGAC
AAGAAGGTTGAGCTGAAAGAGAACCTGATTGCTGAGCTAGCAGAAGAGAAGAAAATGATT
GAAAACGAAATGCTGACAATGGAAGTGAATGGAGATTCTATGCAGGTGAGACCTATCATG
ACCAGAAAGTTGCGGAGGCGACCAATGATCCCGTCCCCATCCAGACAAGAGGAGGAAA
CCTGCTCCAGCCCAGCTAACTATTTGTTAACAGATGAACAGATCATGGAGGATCTGAGA
ACATTAAATAAGCTTAAGTACCCCAAGAGACCAGCATCTCCATCCTCTCCTGAGCACTTG
CCTGCGACACCCGCGGAATCTCCAGCCAGAGGTTTGAAGCTCGGATAGAAGATGGCAA
CTGCACTATGACAAAAGATGGTACCACAAGAGCCAGGCCATCTATCTGGAGTCAAAGGAC
AACCAGAACTGAGCTGCGTGATCAGTTCTGTAGGAGCCAATGAGATCTGGGTGAGGAAG
ACAAGTGACAGCACCAAGATGAGGATCTACCTGGGCCAGCTTCAGCGCGGGCTCTTCGTC
ATCCACCGGCGCTCAGCTGCTTGA

Gene 324. >ENST00000308158 cDNA sequence

AGTTCTGCGCGGGAAGTGCCTAAGGCACGACCACGGGCGGGAAGGCTGCCAGGCCAGTGG
GCAAGCGAAGAAATGAACCAACGCGGGCGCTTCGGGGCGGGGCGAGTGCGAACC
TGAGCCCCAAATCCCGACCCAGGCAGGGGCGGGGCCGAGCGGGGCTTGGAGGCCAG
CCCGCGCGGCGACGTCTCCGCGTGGCGTCAAGGCACCGACTGACGGCCACCCACCATGGC
CGCAGACCAGCGCCGAAGGCCGACACGCTGGCCCTGAGGCAACGGCTCATCAGCTCTTC
CTGCAGACTCTTTTTTCCCGAGGATCCTGTTAAGATTGTCCGGGCCCAAGGGCAGTACAT
GTACGATGAACAGGGGGCAGAATACATCGATTGCATCAGCAATGTGGCGCACGTTGGGCA
CTGCCACCCTCTCGTGGTCCAAGCAGCATGAGCAGAACCAGGTGCTCAACACCAACAG
CCGGTACCTGCATGACAACATCGTGGACTATGCGCAGAGGCTGTGAGAGACCCTGCCGGA
GCAGCTCTGTGTGTTCTATTTCTGAATTCTGGGTGAGAAGCCAATGACCTGGCCCTGAG
GCTGGCTCGCCACTACACGGGACACCAGGACGTGGTGGTATTAGATCATGCGTATCACGG
CCACCTGAGCTCCCTGATTGACATCAGTCCCTACAAGTTCCGCAACCTGGATGGCCAGAA
GGAGTGGGTCCACGTGGCACCTCTCCAGACACCTACCGGGGCCCCCTACCGGGAGGACCA
CCCCAACCCAGCTATGGCCTATGCCAACGAGGTGAAACGTGTGGTCAGCAGTGCACAGGA
GAAGGGCAGGAAGATTGCAGCCTTCTTCGCTGAGTCTTGCCAGTGTGGGAGGGCAGAT

FIGURE 1 (CONT'D)

CATTCCCCCTGCTGGCTACTTCTCCCAAGTGGCAGAGCACATCCGCAAGGCCGGAGGGGT
 CTTTGTTCAGATGAGATCCAGGTTGGCTTTGGCCGGGTAGGCAAGCACTTCTGGGCCTT
 CCAGCTCCAGGGAAAAGACTTCGTCCCTGACATCGTCAACATGGGCAAGTCCATTGGCAA
 CGGCCACCCTGTTGCTGCGTGGCCGCAACCCAGCCTGTGGCGAGGGCATTGAAGCCAC
 CGGCGTTGAGTACTTCAACACGTTTGGGGGCAGCCAGTGTCTGCGCTGTGGGGCTGGC
 CGTCTGAATGTCTTGGAGAAGGAGCAGCTCCAGGATCATGCCACCAGTGTAGGCAGCTT
 CCTGATGCAGCTCCTCGGGCAGCAAAAATCAAACATCCCATCGTCGGGGATGTGAGGGG
 TGTTGGGCTCTTCATTGGTGTGGATCTGATCAAAGATGAGGCCACAAGGACACCAGCAAC
 TGAAGAGGCTGCCTACTTGGTATCAAGGCTGAAGGAGAACTACGTTTTGCTGAGCACTGA
 TGGCCCTGGGAGGAACATCCTGAAGTTTAAGCCCCCAATGTGCTTCAGCCTGGACAATGC
 ACGGCAGGTGGTGGCAAAGCTGGATGCCATTCTGACTGACATGGAAGAGAAGGTGAGAAG
 TTGTGAAACGCTGAGGCTCCAGCCCTAAGCCAGCCCTGCTCTGCCTAAGTGTACTCCAGA
 AGAAACTCATCTCATCAAATACACGCTATTGAGAAGGCGAGCCTGACCTCCCTCTTACA
 GATAAAGTCAGCTTTCAGAGGCTCAGGGTGGGGGGGCTGCCGAGGCCATAATGCTACC
 CACCCCTCCTCCTAACCCTGGTCTGTTGGAATAACCCAGATGTCTGCATCCCTCAAG
 TCAGTCAATTTCTTTCTGTCCACTGGGGGTGGAATGGGGTAGGGTGGGATACTTTAAAG
 TGCTCCTGCTTAAATAAATTAGACCAGACCAGTGTATTTCTAAAGAAAATCCTGACATGC
 ACACCCATTAAAAATAGTACATTTT

Gene 325. >ENST00000274615 cDNA sequence

CTTAGGTCCTGGGCCCCCACTGCCAGGCTGGGCCCAGCTTGCTCAGTCAAGGGGCTGCCA
 GGCCCCCAGAAAACACTTGGAGCCATCGGGTAGCGATGGTCTATGCCATGGGGAACACCT
 CCATTGGTGTGGCCAAGCTGCCCCATTCTATCCACCCCTCTCCCCACCCCGTCTGTC
 CATGCGCTTCAGGGCCCCACGGTCCCAGGAGGACGCTTCCTGGCCAAAGCCCCAAGCC
 TTTGGTGAGAAGCCAATTCACACTTGACAGAAGGCGTCCATCCATTCTCATTGGCCA
 AGGACAAACTCTCCTCTGGGACGTCTGGGACTGGCATTGTGCCCCACTCAAATTATCAA
 AGCTTTCTGCTCAGTCAGTTGTGTGGGGATGGTGAGGGAAGAGGGGTACATGAGGGAGG
 AAAGTGTATCCATGCATGCATGATAATGCGTGGCAGAGACTGCAACAGGGATTGTGTGTT
 CAGAGATCATATGCATATGTGTAGGGCTGGAGCGTGTGTGTCTTGAGATTGTGTGTGT
 TGCAGTCATCATATCTATGTGTTACAGATTGTGTATGTTAGCCTTGTGTATGTGTGCTTG
 ATTGAGGTGGTGTATTTGGGTTGAAATTGTGTATATGTGTGTGCTATCCATCTCGTGTT
 TAGAGGCTGTATATGTTAGCTTGTGTAAGAATGTGTTTTCAAAACAGTGTGTGTATTGGG
 AGTGATGGGTATGTGTTAGGTATGTGATGGGTTGTAGAAGCGTGTGTTTGAGAGAATTCA
 GAGACATTTGAAGGCTGCTGTGTGCATGTTTGGGGGTCTGAAAAGACAGTTGTGTGCATG
 GATGTGTGCGTGGGGAGAAAGAACGTGGGTAAGATGTCCCTTCCAGCCCTGAGACCACT
 GGTACAGTTGGCCACCTCCAACGGGAGACCTTGTCTTGGCCTAGAGTCCTCCACCCCT
 TGGGGGGCTCCTGCCTGAGGTCTCAGAAATCCCACTGCAATGGACCCAGGCAGCGCCCCA
 GGAAGCCATGCTGGGCCCCCGCCAGGGCCTATCCCAAAGCAGGGGCCAGGGAGGGGGCG
 ACTTGCCTGCCCCCTGAAGCCCTTGTTCCCATTTGGCCCCAGTTTGCATTCTGCAGGTTTTT
 CATTTTAGTGGGTTCTGCTTTTATTTTCAAGACAGACATGTGTCTTCTCTGTCCGTTTTCC
 AATAGGTAAAGCCATATCAGTTAGACTGCAATACTTTAAACACGAGACAAAACAATCCAT
 ATGTTTAGGGAACACAATGACTATCATTACTGATGCAGACCTGGCTGTGGAGAGCAGCTA
 ATGTGTGGCCAGAGAGCCTGTCTGTGTGGAGCACGTAGTGACAGAAATACGTGAGAGTT
 GCTCTGGCAGGGGCAGAATCCTCACAGGATCGCCTGGGAGGTGAGGTGTGTGTGACCCAC
 TGGATGGGAGGGCAATGAGTGTGCACATACAAATGGGGCAGTGTGCATGCAACACACTTA
 GGGGAGGAGTGGCCCCAGAATTGAGCAGCACACAACAACAAGGGAGAGAACCCCCAGA
 TGAGAAAATAGGAAGGAGCAATCATTTGTAGATGGGTGAAAAAAGAATGAGGTTCAAGGG
 AGCGTGACACAGGTGAGGTGAGCGTGTGTGCTCTCAGGGAAGGGCCAGGATCCCATGCC
 TGGGAGGAGCTGCCAGAGAGAAGCAAAAAGGCGGCTGTGGATCGCCCTGGGCTGGGCACC
 AGTGACAGGTGAGGATCTCAAACATGGACGTCTCCCTCCCAATCCAGAAGCTCCAG
 AAGGTGTCTTAACTGCAAAGCTGTGCAGGGTACTCCTCCAGATGGAATCAGGAAGTCGA
 GACACCATCCAGGTGTGTGTAAGAGAGAGAGAGAGAACAGGGAGGATACAGAAGTATTG
 CAGCCCAGATCCCTATCAGGGGGACAGCTGGTGGGCAAAGCAGCCACCCACAGCCTTG
 TGGCTAGAGTACAGTGGGGTAGACCTCCAGCCCCAATAGCCCTAGTACCCAGCTGGCAG
 GGTGCCCCACCCCTGCTGTCCACCTGCTCCATCCTCTAGGGTTCCACAGGCCCTGACCG

FIGURE 1 (CONT'D)

CACAGGGAGGCTGGGGCCAGCCTGGTCTCCAGGCCTGAGGACATGCCTCCCACCAAATG
TCCCCTGCTCCAGTCCCACTCCTGTCACCCCACGCTCTGCACTGGGGAGAAAACGGGAGG
TGCTCGTGCTGGCCCTGGGTGGGAGCGGGGAGTCCTGGTGAGACCCGGTGAGATGGACC
ATCCTGCCCCCGTGGGGGATCCCCTTTCCACATCCGTGCTGTGTATTGTTGCTCTGCT
TCCTTTCAATGTGTGCTGCTGCTGGGGGAGGGGAGGAGCACCCCTCAGCCCCCTGAAC
CTGACCAAAAGCCATGGCTGTTGCTCCCCCTTTGTATGATGCAAATGCTGAAATGTACA
AAATCAACCATGACAACAAAGAAAAAGACCTTGTACAGC

Gene 326. >ENST00000265097 cDNA sequence

GCGGCGCCAGGACTGACTGCGCCGTGGAGGCTGCTGCAGTGTTGTGAGTTGGAAGCTGGG
GAGCTCGGCATGGCGGTCCCCGCTGCAGCCATGGGGCCCTCGGCGTTGGGCCAGAGCGGC
CCCGGCTCGATGGCCCCGTGGTGCTCAGTGAGCAGCGGCCGTCGCGCTACGTGCTTGGG
ATGCAGGAGCTGTTCCGGGGCCACAGCAAGACGCGCGAGTTCTTGCGCACAGCGCCAAG
GTGCACTCGGTGGCCTGGAGTTGCGACGGGCGTCGCTAGCCTCGGGGTCTTTCGACAAG
ACGGCCAGCGTCTTCTTGCTGGAGAAGGACCGGTTGGTCAAAGAAAACAATTATCGGGGA
CATGGGGATAGTGTGGACCAGCTTTGTTGGCATCAAGTAATCCTGACCTATTTGTTACG
GCGTCCGGAGATAAAACCATTTCGCATCTGGGATGTGAGGACTACAAAATGCATTGCCACT
GTGAACACTAAAGGGGAGAACATTATATCTGCTGGAGTCCTGATGGGCAGACCATTGCT
GTAGGCAACAAGGATGATGTGGTGACCTTTATTGATGCCAAGACACACCGTTCCAAAGCA
GAAGAGCAGTTCAAGTTCGAGGTCAACGAAATCTCCTGGAACAATGACAATAATATGTTTC
TTCCTGACAAATGGCAATGGTTGTATCAACATCCTCAGCTACCCAGAACTGAAGCCTGTG
CAGTCCATCAACGCCCATCCTTCCAATGTCATCTGTATCAAGTTTGACCCATGGGGAAG
TACTTTGCCACAGGAAGTGCAGATGCTTTGGTCAGCCTCTGGGATGTGGATGAGTTAGTG
TGTGTTCCGGTGCTTTTCCAGGCTGGATTGGCCTGTAAGAACCCTCAGTTTCAGCCATGAT
GGGAAAATGCTGGCGTCAGCATCGGAAGATCATTTTATTGACATTGCTGAAGTGGAGACA
GGGGACAACTATGGGAGGTACAGTGTGAGTCTCCGACCTTCACAGTGGCGTGGCACCCC
AAAAGGCCTCTGCTGGCATTTCGCTGTGATGACAAAGACGGCAAATATGACAGCAGCCGG
GAAGCCGGAACGTGTGAAGCTGTTTGGGCTTCCTAATGATTCTTGAGAGGAGGTTGTAGGG
AGAGGAGGCCCCGGCAGAGGTCTTCCTTCATGTGGTTAGTTTGGTCTGTTCTCTCGGAGT
TGGTGGGCACCTAAATATTTGTAAGTTGGTATAAATTGTAAACGTCTCTGGTCAGGCTG
CGCATTTTATTCTTTTGCTTTGTCTGTGTATTAGCTCTTTCCATTCTTTGCCCCCAGCAT
GAGTTAACTCGCGTGGACTCTGCAGTGCGAGTAGTGACCCACCATACTTGTCTCTG
ACCTCCTGTCTTCTCTGCTTCTGGGTGCATGGTAGACTTTGTGGCATTGATACAACTTG
GACAATACCTAGTTTGGAGGGAGGGGAATGGAAGGGCATGGAAGTTTTTTTTAAATAATTA
AAAATATATATATATAATTTTGAGAATTGAGCATTTAATAAACTGACTTTTGTATTATG
G

Gene 327. >ENST00000302857 cDNA sequence

ATGTTCCATGAGAACTTGGTGAGGGTTGTGGAGAGGTTGGCTGGTGCTTCTCCGTCTTCA
TACAGATGTCCAGACAGGGGACCAGAAGTCTCAGGTCTGAGCTCTACCTGGAAGCCCCCTC
ACGTCTGTAGCCATCAAACCTCCAGATAAGACGAGCCCTGAAGCATTTTGGTTGCATCAG
AAAACAGATGGAAGGCCAGTCTTACAGATGCATATACTTCATCCTGGCTTCCACCCACA
GAGGTTGCATCTGTGCAGAAATTCATCCAGAGCACCAGGCAGGTGGGTGTCAACTCCTG
CTGAGATTTGCTGTATCAGGAACTCATGCATCTGGTGCAGATGTCCCGGAGTGGCTCT
GACAGTCCAGGGCTGGGCAGTGGAGACACTGATGACAGCCTTGAGCAGAGTGGTTTTAGT
AGAAATGGCAGAGACAAAAGCCAGGCTAGAGGAGTTTAA

Gene 328. >ENST00000333469 cDNA sequence

GGCCGATCCCAACGAGGCTCCCTGGAGCCCCGACGAGAGCAGCGCCCTGGCCGGGCCAAG
CAGGAGCCGGCATCATGGATTCTTCAAAGTAGTGCTGGAGGGGCCAGCACTTGGGGCT
TCCGGCTGCAAGGGGGCAAGGACTTCAATGTGCCCTCTCCATTTCCCGGCTCACTCCTG
GGGGCAAAGCGGCGCAGGCCGGAGTGGCCGTGGGTGACTGGGTGCTGAGCATCGATGGCG
AGAATGCGGGTAGCCTCACACACATCGAAGCTCAGAACAAGATCCGGGCCTGCGGGGAGC
GCCTCAGCCTGGGCCTCAGCAGGGCCAGCCGGTTTCAGAGCAAACCGCAGAAGGCCTCCG
CCCCCGCGCGGACCCTCCGCGGTACACCTTTGCACCCAGCGTCTCCCTCAACAAGACGG
CCCGGCCCTTTGGGGCGCCCCCGCCCGCTGACAGCGCCCCGAGCAGAATGGACAGCCGC
TCCGACCGCTGGTCCCAGATGCCAGCAAGCAGCGGCTGATGGAGAACACAGAGGACTGGC

FIGURE 1 (CONT'D)

GGCCGCGGCCGGGGACAGGCCAGTCGCGTTCTTCCGCATCCTTGCCACCTCACAGGCA
CCGAGTTCATGCAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGCCAGGTGCCAGGA
CAGAAGCCCCAGCCCCAGCCTCATCTACACCCAGGAGCCCTGGCCTGGCCCTACCGCCC
CCAGCCCTACCAGCCGCCCCGCCCTGGGCTGTGGACCCTGCGTTTGCCGAGCGCTATGCCC
CGGACAAAACGAGCACAGTGCTGACCCGGCACAGCCAGCCGGCCACGCCACGCCGCTGC
AGAGCCGCACCTCCATTGTGCAGGCAGCTGCCGGAGGGGTGCCAGGAGGGGGCAGCAACA
ACGGCAAGACTCCCGTGTGTACCAAGTGCCACAAGGTCATCCGGGGCCGCTACCTGGTGG
CGCTGGGCCACGCGTACCACCCGGAGGAGTTTGTGTGTAGCCAGTGTGGGAAGGTCCTGG
AAGAGGGTGGCTTCTTTGAGGAGAAGGGCGCCATCTTCTGCCACCATGCTATGACGTGC
GCTATGCACCCAGCTGTGCCAAGTGCAAGAAGAAGATTACAGGCGAGATCATGCACGCCC
TGAAGATGACCTGGCAGTGCACTGCTTTACCTGTGCTGCCTGCAAGACGCCCATCCGGA
ACAGGGCCTTCTACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGACTATGAGAAGATGT
TTGGCAGCAAATGCCATGGCTGTGACTTCAAGATCGACGCTGGGGACCGCTTCTGGAGG
CCCTGGGCTTCAGCTGGCATGACACCTGCTTCGTCTGTGCGATATGTGAGATCAACCTGG
AAGGAAAGACCTTCTACTCCAAGAAGGACAGGCCTCTCTGCAAGAGCCATGCCTTCTCTC
ATGTGTGAGCCCCCTTCTGCCACAGCTGCCCGGTGGCCCCCTAGCCTGAGGGGCCTGGAG
TCGTGGCCCTGCATTTCTGGGTAGGGCTGGCAATGGTTGCCTTAACCTGGCTCCTGGCC
CGAGCCTGGGGCTCCCTGGGCCCTGCCCCACCCACCTTATCCTCCACCCCACTCCCTCC
ACCACCACAGCACACCGGTGCTGGCCACACCAGCCCCCTTTCACCTCCAGTGCCACAATA
AACCTGTACCCAGCTGTG

Gene 329. >ENST00000292374 cDNA sequence

CGACGCAGAGCAGCGCCCTGGCCGGGCCAAGCAGGAGCCGGCATCATGGATTCTTTCAAA
GTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGGGGCAAGGACTTCAAT
GTGCCCCCTCTCATTTCCTGGCTCACTCCTGGGGGCAAAGCGGCGCAGGCCGGAGTGGCC
GTGGGTGACTGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGCCTCACACATCGAA
GCTCAGAACAAGATCCGGGCCTGCGGGGAGCGCCTCAGCCTGGGCCTCAGCAGGGCCCAG
CCGGTTTCAAGCAAACCGCAGAAGGCCTCCGCCCCCGCCGCGGACCTCCGCGGCCTTTG
CACCCAGCGTCTCCCTCAAACAAGACGGCCCCGGCCCTTTGCCCCCGCCGCTGACAGCGCC
CCGCAGCAGAATGGACAGCCGCTCCGACCGCTGGTCCCAGATGCCAGCAAGCAGCGGCTG
ATGGAGAACACAGAGGACTGGCGGCCGCGGCCGGGGCCAGTCGCGTTCTTCCGCATCC
TTGCCCCACCTCACAGGCACCGAGTTAGTAATGCAAGACCCGGATGAGGAGCACCTGAAG
AAATCAAGCCAGGTGCCCAGAAGCCCCAGCCCCAGCCTCATCTACACCCAGGAGCCCTG
GCCTGGCCCTACCGCCCCCAGCCCTACCAGCCGCCCCGCCCTGGGCTGTGGACCCTGCGTT
TGCCGAGCGCTATGCCCCGGACAAAACGAGCACAGTGCTGACCAAGCCAGCCGGCCACG
CCCACGCCGCTGCAGAGCCGCACCTCCATTGTGCAGGCAGCTGCCGGAGGGGTGCCAGGA
GGGGGCAGCAACAACGGCAAGACTCCCGTGTGTACCAAGTGCACAAGGTCATCCGGGGC
CGCTACCTGGTGGCGCTGGGGCCACGCGTACCACCCGGAGGAGTTTGTGTGTAGCCAGTGT
GGGAAGGTCTTGAAGAGGGTGGCTTCTTTGAGGAGAAGGGCGCCATCTTCTGCCACCA
TGCTATGACGTGCGCTATGCACCCAGCTGTGCCAAGTGCAAGAAGAAGATTACAGGCGAG
ATCATGCACGCCCTGAAGATGACCTGGCACGTGCACTGCTTTACCTGTGCTGCCTGCAAG
ACGCCCATCCGGAACAGGGCCTTCTACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGAC
TATGAGAAGATGTTTGGCACGAAATGCCATGGCTGTGACTTCAAGATCGACGCTGGGGAC
CGCTTCTTGGAGGCCCTGGGCTTCAGCTGGCATGACACCTGCTTCGTCTGTGCGATATGT
CAGATCAACCTGGAAGGAAAGACCTTCTACTCCAAGAAGGACAGGCCTCTCTGCAAGAGC
CATGCCTTCTCTCATGTGTGAGCCCCCTTCTGCCACAGCTGCCGCGGTGGCCCCCTAGCCT
GAGGGGCCTGGAGTCGTGGCCCTGCATTTCTGGGTAGGGCTGGCAATGGTTGCCTTAACC
CTGGCTCCTGGCCCCGAGCCTGGGGCTCCCTGGGCCCTGCCCCACCCACCTTATCCTCCCA
CCCCACTCCCTCCACCACCACAGCACACCGGTGCTGGCCACACCAGCCCCCTTTACCTC
CAGTGCCACAATAAACCTGTACCCAGCTGTG

Gene 330. >ENST00000331561 cDNA sequence

CGACGCAGAGCAGCGCCCTGGCCGGGCCAAGCAGGAGCCGGCATCATGGATTCTTTCAAA
GTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGGGGCAAGGACTTCAAT
GTGCCCCCTCTCATTTCCTGGCTCACTCCTGGGGGCAAAGCGGCGCAGGCCGGAGTGGCC
GTGGGTGACTGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGCCTCACACACATCGAA

FIGURE 1 (CONT'D)

GCTCAGAACAAAGATCCGGGCCTGCGGGGAGCGCCTCAGCCTGGGCCTCAGCAGGGCCCAG
CCGGTT CAGAGCAAACCGCAGAAGGTGCAGACCCCTGACAAAAGCCGCTCCGACCGCTG
GTCCAGATGCCAGCAAGCAGCGGCTGATGGAGAACACAGAGGACTGGCGGCCGCGGCCG
GGGACAGGCCAGTCGCGTTCTTCCGCATCCTTGCCACCTCACAGGCACCGAGTTCATG
CAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGCCAGGTGCCAGGACAGAAGCCCCA
GCCCCAGCCTCATCTACACCCAGGAGCCCTGGCCTGGCCCTACCGCCCCAGCCCTACC
AGCCGCCCGCCCTGGGCTGTGGACCCTGCGTTTGCCGAGCGCTATGCCCGGACAAAACG
AGCACAGTGCTGACCCGGCAAGCCAGCCGGCCACGCCCACGCGCTGCAGAGCCGCACC
TCCATTGTGCAGGCAGCTGCCGAGGGGTGCCAGGAGGGGGCAGCAACAACGGCAAGACT
CCCGTGTGT CACAGTGCCACAAGGT CATCCGGGGCCGCTACCTGGTGGCGCTGGGCCAC
GCGTACCACCCGAGGAGTTTGTGTGTAGCCAGTGTGGGAAGGTCTTGAAGAGGGTGGC
TTCTTTGAGGAGAAGGGCGCCATCTTCTGCCACCATGCTATGACGTGCGCTATGCACCC
AGCTGTGCCAAGTGCAAGAAGAAGATTACAGGCGAGATCATGCACGCCCTGAAGATGACC
TGGCACGTGCACTGCTTTACCTGTGCTGCCTGCAAGACGCCCATCCGGAAAGGGCCTTC
TACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGACTATGAGAAGATGTTTGGCACGAAA
TGCCATGGCTGTGACTTCAAGATCGACGCTGGGGACCGCTTCCTGGAGGCCCTGGGCTTC
AGCTGGCATGACACCTGCTTCGTCTGTGCGATATGT CAGATCAACCTGGAAGGAAAGACC
TTCTACTCCAAGAAGGACAGGCCTCTCTGCAAGAGCCATGCCTTCTCTCATGTGTGAGCC
CCTTCTGCCACAGCTGCCGCGGTGGCCCTAGCCTGAGGGGCGCTGGAGTCGTGGCCCTG
CATTTCTGGGTAGGGCTGGCAATGGTTGCCTTAACCCCTGGCTCCTGGCCCGAGCCTGGGG
CTCCCTGGGCCCTGCCCCACCCACCTTATCCTCCCACCCCACTCCCTCCACCACCACAGC
ACACCGGTGCTGGCCACACCAGCCCCCTTTACCTCCAGTGCCACAATAAACCTGTACCC
AGCTGTG

Gene 331. >ENST00000331867 cDNA sequence

AGAACTACTGGCGGCCGATCCCAACGAGGCTCCCTGGAGCCCGACGCAGAGCAGCGCCCTG
GCCGGGCCAAGCAGGAGCCGGCATCATGGATTCTTCAAAGTAGTGCTGGAGGGGCCAGC
ACCTTGGGGCTTCCGGCTGCAAGGGGGCAAGGACTTCAATGTGCCCCTCTCCATTTCCCG
GCTCACTCCTGGGGGCAAAGCGGCGCAGGCCGGAGTGGCCGTGGGTGACTGGGTGCTGAG
CATCGATGGCGAGAATGCGGGTAGCCTCACACACATCGAAGCTCAGAACAAAGATCCGGGC
CTGCGGGGAGCGCCTCAGCCTGGGCCTCAGCAGGGCCCAGCCGGTT CAGAGCAAACCGCA
GAAGGCCTCCGCCCCCGCCGCGGACCCCTCCGCGGTACACCTTTGCACCCAGCGTCTCCCT
CAACAAGACGGCCCCGGCCCTTTGGGGCGCCCCCGCCGCTGACAGCGCCCCGAGCAGAA
TGGACAGCCGCTCCGACCGCTGGTCCCAGATGCCAGCAAGCAGCGGCTGATGGAGAACAC
AGAGGACTGGCGGCCGCGGCCGGGGACAGGCCAGTCGCGTTCCTTCCGCATCCTTGCCCA
CCTCACAGGCACCGAGTTTCATGCAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGGGA
AAAGTATGTCTGGAGCTGCAGAGCCACGCTACACCCGCCTCCGGGACTGGCACCAACA
GCGCTCTGCCACGTGCTCAACGTGCAGTCGTAG

Gene 332. >ENST00000332347 cDNA sequence

ATGGATTCTTCAAAGTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGG
GGCAAGGACTTCAATGTGCCCCTCTCCATTTCCCGGCTCACTCCTGGGGGCAAAGCGGCG
CAGGCCGGAGTGGCCGTGGGTGACTGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGC
CTCACACACATCGAAGCTCAGAACAAAGATCCGGGCCTGCGGGGAGCGCCTCAGCCTGGGC
CTCAGCAGGGCCCAGCCGGTT CAGAGCAAACCGCAGAAGGCCTCCGCCCCCGCCGCGGAC
CCTCCGCGGTACACCTTTGCACCCAGCGTCTCCCTCAACAAGACGGCCCCGGCCCTTTGGG
GCGCCCCCGCCCGCTGACAGCGCCCCGAGCAGAATGGGTGCAGACCCCTGACAAAAGAGC
CGTCCGACCGCTGGTCCCAGATGCCAGCAAGCAGCGGCTGA

Gene 333. >ENST00000333364 cDNA sequence

ATGACTCGGGGAGCCAGACTGCGATCAGACGCGCGTGCCAGCTGAACAGCTGTCTCTA
GACGGAGGGACGGGAAGTGGCCAGAAGGGGAAGTGTGAGGAGTTCCCGTCCAGCCTGTCA
TCAGTCTCCCCAGGTCTTGAAGCGGCGGCCCTGCTCCTGGCCGTGACCATGGACCCTCTG
GAGACCCCTATCAAGGATGGCATCCTCTACCAGCAGCATGTCAAGTTTGGCAAGAAGTGC
TGGCGGAAGGTGTGGGCTCTGCTGTATGCAGGAGGCCCATCAGGCGTGGCACGGCTGGAG
AGCTGGGAGGTCCGGGATGGTGGCCTGGGAGCAGCGGTGACAGGTCCGCAGGGCCTGGC
CGGCGAGGGGAGCGACGGGT CATCCGCCTGGCTGACTGTGTGTCCGTGCTGCCGGCTGAC

FIGURE 1 (CONT'D)

GGCGAGAGCTGCCCCGGGACACCGGTGCCTTCTGCTCACCACCACCGAGCGAAGCCAT
CTACTGGCTGCTCAGCACCGCCAGGCCTGGATGGGCCCCATCTGCCAGCTGGCCTTCCCG
GGGACAGGGGAGGCCTCCTCAGGATCCACAGATGCCAGTCTCCAAGAGGGGCCTGGTC
CCCATGGAGGAAAACCTCATCTACTCCTCCTGGCAGGAAGTGGGCGAGTTTCCCGTGGTG
GTGCAGAGGACTGAGGCCGCCACCCGCTGCCAGCTGAAGGGGCGGCCCTGCTGGTGCTG
GGCCAGACGCCATCAGCTGAGGGAGGCCAAGGGCACCCAGGCCCTCTACAGCTGGCCC
TACCACTTCTGCGCAAGTTCGGCTCCGACAAGGGCGTGTTCTCCTTTGAGGCCGGCCGT
CGCTGCCACTCGGGTGAGGGCCTCTTTGCCCTTCAGCACCCCTGTGCCCCCTGACCTGTGC
AGGGCTGTGGCCGGGGCCATCGCCCGCCAGCGGGAGCGGCTGCCAGAGCTGACCAGGCC
CAGCCCTGCCCCCTGCCACGGGCCACCTCTCTGCCCTCCCTGGACACCCCGGAGAGCTT
CGGGAGATGCCACCAGGACCTGAGCCACCCACGTCCAGGAAAATGCACCTGGCCGAGCCC
GGACCCAGAGCCTGCCGCTACTGCTAGGCCCGGAGCCCAACGATCTGGCGTCCGGGCTC
TACGCTTCAGTGTGCAAGCGTGCCAGTGGGCCCCAGGCAATGAGCACCTCTATGAGAAC
CTGTGTGTGCTGGAGGCCAGCCCCAGCTGCACGGTGGGGAACCTGAGCCGCACGAGGGC
CCCGGCAGCCGCAGCCCCACAACAGTCCCATCTACCACAACGGCCAGGACTTGAGCTGG
CCCGGCCCGGCCAACGACAGTACCCTGGAGGCCAGTACCGGCGGCTGCTGGAGCTGGAT
CAGGTGGAGGGCACAGGCCGCCCTGACCCTCAGGCAGGTTTCAAGGCCAAGCTGGTGACC
CTGCTGAGTCTGTGAGCGGAGGAAGGGCCAGCCCCCTTGTGACCGGCCCTGAACGCCCAGC
AGAGTGGTGGCCAGAGGGGAGAGGTGCTCCCCCTGGGACAGGAGGGTGGGCTGGTGGGCA
AACATTGGGCCCATGCAGACACAGCCTGTGTCCACCCTGGCCTGCAGGAACAAGGCAGG
CCGCCTGTGGAGGACCTCAGCCCTGCCCTGCCCTCCTCATGAATAGTGTGCAGACTCACA
GATAATAAAGCTCAGAGCAGCTCCCGGCAGGGGCACTCACGGC

Gene 334. >ENST00000331704 cDNA sequence

ATGGGCCCCATCTGCCAGCTGGCCTTCCCGGGGACAGGGGAGGCCTCCTCAGGATCCACA
GATGCCCAGTCTCCAAGAGGGGCCTGGTCCCCATGGAGGAAAACCTCATCTACTCCTCC
TGGCAGGAAGTGGGCGAGTTTCCCGTGGTGGTGAGAGGACTGAGGCCGCCACCCGCTGC
CAGCTGAAGGGGCGGCCCTGCTGGTGCTGGGCCCAGACGCCATCCAGCTGAGGGAGGCC
AAGGGCACCCAGGCCCTCTACAGCTGGCCCTACCACTTCTGCGCAAGTTCGGCTCCGAC
AAGATACTTCTGGGAACCCAGGCGTCAGTCTCCTCATCTGTAAAGGAGAGAGAACCGAT
GACGTATCAGGCATAATCCTTGATGAGAGTTTGTCTGCTGCCTACTCAGTGCAGGCGCT
GGGGGACACAGCCGTGTTTCAAGACAGCCTTGGTCCTGTTCTCCGGGAGCCGACATTCAG
GGGGAGAGAAGTTTCTGAAGACTTCCATGCTGCGTTCCCTCCTCTGCTCCTGCTCCTGG
CGCCATCCTAGGAGCCAGCCACGCACGCAAGCGTCATGCCTCCAGGGCTCTGACTGCCCA
GCCCCCTCACCGCAACTCCACCTCAGCTGCACACACCCCTTGGCACATCCTGAACCTCATTT
TCATGACGGACACACAATTTTTGTCTCTCCTGTCCAAGCCTCATCCTCTGGCCGCCACC
TCCTTCCAGCTCACTTCCCTTTAGTGGCGCCAGTACCAGCCCCCTGCCTAGGCATGTGACCT
GCAGGGACCCCTTTTCTGGCTCTTCGAGGCCTCTGCCCCACCATCCCTCTTTGTTCTCAT
AGTCCCTTCCCCCTGTTCTCTCTCGTTTTCATCTTACTGGTCTGGCAAAGTCCCCGGCCTT
GGGCGAGCCCAGACCTCCTCAGTGCCTGCACACAGCTGCCACAGCCAGAGAAATCCATT
TAAGCAGACTGCCTGCATCCTTCTTAACAGTGCAAGGCAGGCACTCCCTGCCACAAGAGA
CCCTGTTCCCTAGTAGGGCAGCTTTTCTCCTCCCCAGAACCTCCTGTCTATCCCCACCCA
ATGTCTCCTCACAGGCATATTGGGGAAAACAGGTGGGGCTCTCCACCGTATCTGCAAGTG
TACTGGCATCCATCTGTCTTCTTCTACCCCTACAGTAGAAACAGTGTCTGTCCCCAGCT
GTGCTCTGATCCCGGCTCCTTTACCTCAGAGCTTGGAAAATTGAGCTGTCCCCACTCTC
TCCTGCGCCCATTCATCCTACAGCAGCTTTTCCAGCCACACGCAAAACATGCTCTGTAAT
TTCACATTTTAAACCTTCCCTTGACCTCACATTCCTCTTCGGCCACCTCTGTTTCTCTGT
TCCTCTTACAGCAAAAACCTGTTCAAAAGAGTTGTTGATTACTTTTCAATTTCACTTTCTC
ACCCCCATTCTCCCCTCAATTAACCTCTCCTTCATCCCCATGATGCCATTATGTGGCTTTT
ATTAGAGTCACCAACCTTATTCTCCAAAACAAAAGCAACAAGGACTTTGACTTCTCAGCA
GCACTCGGCTCTGGTTCTTGAAACACCCCGTTACTTGCTATTCTCCTACCTCATAACA
ATCTCCTTCCAGCCTCTACTGCTGCCTTCTCTGAGTTCTTCCAGGGTCTTAGGCTCAG
ATGTAGTGTAGCTCAACCCTGCTACACAAAGAATCTCCTGAAAGCCTGTAAAAATGTCCA
TGCATGTTCTGTGAGTGATCTACCAAGAAAATAAAAAATTTTAAAAATC

Gene 335. >ENST00000274788 cDNA sequence

FIGURE 1 (CONT'D)

GGCGGCGGCGGCGGCGTGTGGAGCGAGGGAGCGGCGGAGCGGCGGCATGACGCGGAGGC
GGAGCAGGCCGAGCGGCGGTGCGGGCAGGCGGAGCGGGCTCGGGCCGCGGGCCGCAGA
AGCCCCAGGCGCCCGAGCCCCCGCGCCGCCAAGCCTGGAGGCGGGAGCGGGTGCAGGCC
CTCCGGAGGCGCCGGCGGAGCCCGACGACGCGCCCGAGGAGGATGACGAACCCAAAC
TGGTGCCCCGCGCCGAGGTAGGAGCGAGCGGGGAGACTTCGGCGGCTCGGGCGCTTTCAC
CTTCCCCGAGCGGGAGCGGGAGTGGGGCGGGTTGGGGATGGGCCATCCTGCCGCGGCTG
GGGTAGCAGCCTTCCCCCGGGTCCGGCGCCGAAGCTTCTCCCCCGGGCGGGAATGGAG
GCTGGACCCCTCTCCCCAAGCCGAGGCTCGGTCCGCGCTCCTGCGACTAGGCTGAAGCT
GCTCCCCTCTCCCCGCGCCTCCGGGCGTTCCGGCGGTACACCCACTGGGACTGGGAC
TGGGACTGGGCTGTGATCCCGAGGCCGAGCTCCGCTCTCGGCCCGCCACTCCCCCGGG
CCCACTGCTCCCTCAGCCACAGGCCATCTCGGGCTCTGGGACTGGACGACTGCAGCCT
CTTCCCTCTGCCCCCGGGAACGGCTCCACTCCGTCCCCTGCAGCGCCTGCAGCCGCGGCC
CCCTCAGCAGCTGTGTCTCCTGGCGCCTCCTCGCCATACCCAGCAGAGCAGTTGGAGCAG
ACAGCCAGGCTGCCCGGAGGAGTTTTTGGTGGGGTTTCTGCACTGAGGTGGAAACCCAGC
AGAACCTGCCCTTCTTCCCTCCCCTGCTCCGCAAGGCAGCCACCCCGACCTTGAGATCC
CAGGTTTTGGAGAATCCTGCTGAGAGCGAACAGTAGGAGGATTCCCAAAGCTTCCAGCTT
GCCACCTGGAAGAAGGTCACTTTCTTTTGGAGCAAAGGAGATAACGGGAGGTACCCTGCCA
AAGTTCACTGAGAGGCGGGGGTGACATGGGCCACGGTTGCTCTGGGAGGGTTGTGGCACT
CGGGGCTGGGTGGCTCTCCCTAAGCTTGCTCTGACAAAAGAGTTTTGAGTTGGTCTTTTG
GCTGAGCCTGCCAGGAAGGCAGGCTCCTGCAGGAGTCTTGGAGGGTCGGATGCGGCGCC
GGATGAGGATGAGGCGTGGCGGAAGATGCGTTTGGCTCTGCAGACACTGCATCGGGCAGC
AGGGGACTCTGGGAGGCTGGTGAGCCAGAAGGCATGGCTCTTGACAGCCTTCTAGTAGA
ATCTCTGGAATTGTGCATATGAAGAAACAGAACTCAGAGCAACTAAACATTTGCCCAA
TGACTCCAACGTAGGTGTGAGACAAAAGAAAAGAAAGGACTTTTAGGTCCCCCGCC
TCCAGCCAGCCTGTGCAGACTTGCTGCCTGCTGTGTACCGGGAACGCAAAGGCTGGGAA
GAAGGCCCTTCTCAAAATGGACTGGTGTGTCAGGGTGAGAAGCTGCCCCCTGACTTCATG
CCAAAGCTCGTCAAGAATCTCCTAGGCGAGATGCCTCTGTGGGTCTGCCAGAGTTGCCGA
AAGAGCATGGAGGAAGATGAAAGGCAGACAGGTGAGAACATGCAGTGGCGATCTCCTTG
TCACACACATCCTGCAATCACAGTCTTGTGGAGATGACTCTCATTCTGCTCCTCGTCTTCC
TCCTCATCATCCTCATCCTCGTCTCCTCTTCTGCCCCTGGGAACTCGGGAGACTGGGAT
CCTAGCTCGTTTCTGTGCGGCACATAAGCTCTCGGGCCTCTGGAATTTCCCAACATTCCAGT
GGGGCCATGCCAGGCAGCTCTTTGGGAGTCTCCTACCATCCCCGGTGAGGCTTTCCCC
GTCTCGGAGCACACCAGCACTCAGACCTCACTGCTCCCCCTAACAGCCCCACCGGCCAC
CACCCGAGCCAGCATCTCTAATCCCGTCTCACCCAGCTCCTTTGGCTCCCCACCCAC
CCACACCTGCTGCCACACCCCGGCAGCACCTTTCCCTGCCAGGCTTCAGAGTGCCTT
GTTGCTGCTGCCACTGCCCCCACTCCAGGGCCATGTCAGAGCTCCCATCTACCTTCC
ACCAGCATGCCGCTCCTGAAGATGCCCCCACCATTCTCGGGGTGCAGCCACCCCTGCAGC
GGGCACTGTGGTGGGCACTGCAGTGGGCCTCTCCTCCACCCCGAGCTCTCAGCCACTC
CCTAGCACTCACAGGGATCCCGGGTGCAAGGGGCACAAGTTTGACACAGTGGCCTGGCT
TGCCAGCTGCCCCAGCCCTGCGAGGCAGATGAGGGGCTGGGTGAGGAAGAGGATAGCAGC
TCTGAGCGAAGCTCCTGCACCTCATCCTCCACCCACCAGAGAGATGGGAAGTTCTGTGAC
TGCTGCTACTGTGAGTTCTTCGGCCACAATGCGGCAAAAGGAAAGGAAATGGCAGAGAGA
AAGCTATGATTCTGATGAGTATGTATACGTGTGTAATCCCAGAGAAGTGAACGCTTGGGA
GTGATGAAGGCAGAGTGAAGCAAAAAGGCTCTCAGTCCCCCAAGTGTGACAGCCAGCCG
AGGGACAGGCCGTGAGCACAGACGGCGCCAGGAAGGAGGCTCAGATCAGAGGGCATGCTG
GCTCTGGCCAGGGGGAGGAAGCAGTGAGAACTCTCATAAGCCACCCGCTGCCCCGACGA
GTCGGAACATACCGAGATCCGGGAGAAGCTCCGCTCGAGGCTGACCAGGCGGAAAGAGG
AGCTGCCCATGAAGGGGGGACCCCTGGGCGGGATCCCTGGGGAGCCCGCCGTGGACACC
GAGATGTGGATGAGCTGCTGGAATTCATCAACAGCACGGAGCCAAAGTCCCACACAGCG
CCAGGGCCGCCAAGCGGGCCCGGCACAAGCTGAAAAAGAAGGAAAAGGAGAAGGCCAGT
TGGCAGCAGAAGCTCTAAAGCAGGCAAATCGTGTCTTCTGGAAGCCGGGAGCCAAGGCCTG
CCAGGGAGAGGCTCTTGGAGTGGCCCGACCGGGAAGTGGATCGGGTCAACAGCTTCTGA
GCAGCCGTCTGCAGGAGATCAAAAACACTGTCAAAGACTCCATCCGTGCCAGCTTCAGTG
TGTGTGAGCTCAGCATGGACAGCAATGGCTTCTTAAGGAGGGGGCTGCTGAGCCTGAGC

FIGURE 1 (CONT'D)

CTCAGAGTCTACCCCCCTCAAACCTCAGTGGCTCCTCAGAGCAGCAGCCTGACATCAACC
TTGACCTGTCCCCTTTGACTTTGGGCTCCCCTCAGAACACACGTTACAAGCTCCAGGCG
AGCCAGCCCCACCATGGGCAGAAATGAGAGGCCCCACCCACCATGGACAGAGGTGAGGG
GGCCCCCTCCCGGTATCGTCCCGAGAACGGGCTCGTGAGGAGACTCAACACCGTGCCCA
ACCTATCCCGGTGATCTGGGTCAAGACACCAAGCCGGGCTACCCAGCTCCGAGGAGC
CAAGCTCAAAGGAAGTTCCAGTTGCAAGCAGGAGCTGCCTGAGCCTGTGTCTCAGGTG
GGAAGCCACAGAAGGGCAAGAGGCAGGGCAGTCAGGCCAAGAAGAGCGAGGCAAGCCCAG
CCCCCGGGCCCCAGCCAGCCTAGAGGTTCCAGTGCCAAGGGCCAGGTGCTGGCCCCA
AGCAGCCAGGCAGGGTCTAGAGCTTCCCAAAGTAGGCAGCTGTGCTGAGGCTGGAGAGG
GGAGCCGGGGGAGCCGGCCAGGACCAGGTTGGGCTGGCAGTCCCAAACTGAGAAGGAGA
AGGGCAGCTCCTGGCGAACTGGCCAGGCGAGGCCAAGGCACGGCCTCAGGAGCAGGAGT
CTGTGCAGCCCTCAGGCCAGCAAGGCCACAGAGCTTGCCCCAGGGCAAGGGCCGAGCC
GCCGGAGCCGCAACAAGCAGGAGAAGCCAGCCTCCTCCTTGACGATGTGTTCTGCCCA
AGGACATGGACGGGGTGGAGATGGATGAGACTGACCGAGAGGTGGAGTACTTTAAGAGGT
TCTGTTTGGATTCTGCAAAGCAGACTCGTCAGAAAGTTGCTGTGAACTGGACCAACTTCA
GCCTCAAGAAAACCACTCCTAGCACAGCTCAGTGAGGCCCTGCCAGGCTGAGCTGCTTC
AGGGCGTCTGAGGCCCTGACTGCCAGCTGAAGGCGTATAATTTTCCCTCCGTGTGCC
CACCTACCCGTCCAAGACCCTCTGTGCTCCCCACCATCCTGGACCAACCAAAGCTGAAC
GGATGCCACACTGTGCTGGGGCCCCCTTGACCTCAGCAGAGCCGCTTCCTGGTGCTACGCA
GCCTCCACACTCAGAGCCCGTGACTGGGCTGGCCTAAGGGCCAGGGCTGATGGTACTGC
TGGCCCAACACTGCTCTCTTTGTGTTTGGTTTTTTTGTTTTTTGTATTTTGTTTTTT
TCCAATTCTTTACTTTTGATACTGTGAAGATCTTTCGTGCCGAAAGATAAAGCAACATTT
GGACACAG

Gene 336. >ENST00000332598 cDNA sequence

GAGCAAGATGGCTGTGGAGCTGGGCGTGCTGCTCGTCCGGCCCCGGCCCGGAACCGGGCT
GGGTAGAGTGATGCGGACCCTCCTGCTGGTGCTGTGGCTGGCGACGCGCGGAAGCGCGCT
CTACTTTACATCGGAGAGACGGAGAAGAAGTGCTTTATTGAGGAGATCCCGACGAGAC
CATGGTCATAGGAACTACCGGACGCAGCTGTATGACAAGCAGCGGGAGGAGTACCAGCC
GGCCACCCCGGGGCTTGGCATGTTTGTGGAGGTGAAGGACCCAGAGGACAAGGTCATCCT
GGCCCGGCAGTATGGCTCCGAGGGCAGGTTCACTTTCACTTCCCATAACCCCTGGTGAGCA
CCAGATCTGTCTTCACTCCAATTCCACCAAGTTCTCCCTCTTTGCTGGAGGCATGCTGAG
AGTTACCTGGACATCCAGGTAGGTGAACATGCCAATGACTATGCAGAAATTGCTGCTAA
AGACAAGTTGAGTGAGTTGCAGCTACGAGTGCGACAGCTGGTGGAACAAGTGGAGCAGAT
CCAGAAAGAGCAGAACTACCAGCGGTGGCGAGAGGAGCGCTTCCGGCAGACCAGTGAGAG
CACCAACCAGCGGGTGCTGTGGTGGTCCATTCTGCAGACCCTCATCCTCGTGGCCATCGG
TGTCTGGCAGATGCGGCACCTCAAGAGCTTCTTTGAAGCCAAGAAGCTTGTGTAGCTGTC
CCAGGCGTCACAACCCATCCTCCAGGCTGGGGGAGAAAGGACCTCCTGGAACCTGACTTC
TTCTGTGAGGAGGACTGGTTTCAGCCATACCTGTTCTGGAAGGGAGAGGGGCTGGAGGC
ACCCACAGGCACAAGCTGAAGGCAGCAGCTTGGCTAATACTGAGCAGGTAGTGGGGCAAA
TTCCTGCCCTCTCTCTCTGGCCTCTGGGCCGTTTGGTAGTAATCACCCAAGGGCTGGTAA
AGCCCCCTCCTCTTGGCACCTCAGAATCACAGTGTTACTGATCAGGGATGTGAGGCTGCTG
TTGGGGGTGGGGGGAGGGGAATGGGCAGGCAAGCCAGTCTTCTGTCTTCTTTGCTAACT
TAGGGTTTTGAGCAGGTTGGGGTATGGTGCCTGTATACCCACCTGCCACCCTGGGAACC
TCACTGTTCTCTCTTTAGCCTAGACCTGCTGATCCAGGTGTGTGTGAGTTGAGGGTGG
GTGGAGGGGTTTGCAGTGTGGGAATGTGGCCCTGCAGTTGACCTGAGCTGCTTCACATGG
TTGTCCATTCTGGGGCTTAAAGAACTGGGACCAGACCAAGTAGAGGCCTTGGTGCTGGTT
GGGGTGGGGCCTGCAGAGTCTTAGTTACTGATTTTCAATTTCAATAAATGTAGGTTTGTTA
CATGAGTTTCCC

Gene 337. >ENST00000330228 cDNA sequence

CAGCGGGCTCGCACCGACGAGGTGCCTGCCGGAGGAAGCCGCTCCGAGGCGGAAGATGAG
GACGACGAGGACTACGTGCCCTATGTGCCGTTACGGCAGCGCCGGCAGCTACTGCTCCAG
AAGCTGCTGCAGCGAAGACGCAAGGGAGCTGCGGAGGAAGAGCAGCAGGACAGCGGTAGT
GAACCCCGGGGAGATGAGGACGACATCCCGCTAGGCCCTCAGTCCAACGTGAGCCTCCTG
GATCAGCACACGACCTTAAAGAGAAGGCTGAAGCGCGCAAAGAGTCTGCCAAGGAGAAG

FIGURE 1 (CONT'D)

CAGCTGAAGGAAGAAGAGAAGATCCTGGAGAGTGTTGCCGAGGGCCGAGCATTGATGTCA
GTGAAGGAGATGGCTAAGGGCATTACGTATGATGACCCATCAAAACAGCTGGACTCCA
CCCCGTTATGTTCTGAGCATGTCTGAAGAGCGACATGAGCGCGTGCGGAAGAAATACCAC
ATCCTGGTGGAGGGAGACGGTATCCCACCACCCATCAAGAGCTTCAAGGAAATGAAGTTT
CCTGCAGCCATCCTGAGAGGCCTGAAGAAGAAAGGCATTACCCACCAACACCCATTAG
ATCCAGGGCATCCCCACCATTCTATCTGGCCGTGACATGATAGGCATCGCTTTACGGGT
TCAGGCAAGACACTGGTGTTCACGTTGCCCGTCATCATGTTCTGCCTGGAACAAGAGAAG
AGGTTACCCTTCTCAAAGCGCGAGGGGCCCTATGGACTCATCATCTGCCCTCGCGGGAG
CTGGCCCGGCAGACCCATGGCATCCTGGAGTACTACTGCCGCTGCTGCAGGAGGACAGC
TCACCACTCCTGCGCTGCGCCCTCTGCATTGGGGGCATGTCCGTGAAAGAGCAGATGGAG
ACCATCCGACACGGTGTACACATGATGGTGGCCACCCCGGGGCGCTCATGGATTTGCTG
CAGAAGAAGATGGTCAGCCTAGACATCTGTCGCTACCTGGCCCTGGACGAGGCTGACCGC
ATGATCGACATGGGCTTCGAGGGTGACATCCGTACCATCTTCTCCTACTTCAAGGGCCAG
CGACAGACCCTGCTCTTCAGTGCCACCATGCCGAAGAAGATTAGAATTTGCTAAGAGT
GCCCTTGTAAGCCTGTGACCATCAATGTGGGGCGCGCTGGGGCTGCCAGCCTGGATGTC
ATCCAGGAGGTAGAATATGTGAAGGAGGAGGCCAAGATGGTGTACCTGCTCGAGTGCCTG
CAGAAGACACCCCGCCTGTACTCATCTTTGCAGAGAAGAAGGCAGACGTGGACGCCATC
CAGAGTACCTGCTGCTCAAGGGGGTTGAGGGCCGTAGCCATCCATGGGGGCAAAGACCAG
GAGGAACGGACTAAGGCCATCGAGGCATTCCGGGAGGGCAAGAAGGATGTCCTAGTAGCC
ACAGACGTTGCCTCCAAGGGCCTGGACTTCCCTGCCATCCAGCACGTATCAATTATGAC
ATGCCAGAGGAGATTGAGAACTATGTACACCGGATTGGCCGCACCGGGCGCTCGGGAAAC
ACAGGCATCGCCACTACCTTCATCAACAAAGCGTGTGATGAGTCAGTGCTGATGGACCTC
AAAGCGCTGCTGCTAGAAGCCAAGCAGAAGGTGCCGCCGTGCTGCAGGTGCTGCATTGC
GGGGATGAGTCCATGCTGGACATTGGAGGAGAGCGCGGCTGTGCCTTCTGCGGGGGCCTG
GGTCATCGGATCACTGACTGCCCCAAACTCGAGGCATATGCAGACCAAGCAGGTGAGCAAC
ATCGGTGCGAAGGACTACCTGGCCCCACAGCTCCATGGACTTCTGAGCCGACAGTCTTCCC
TTCTCTCCAAGAGGCCTCAGTCCCCAAGACTGCCACCAAGTCTACACATACAGCAGCCCCC
TGGACAGAATCAGCATTTTCAGCTCAGCTGGCCTGGGATGGGCCAGGCTGGTCCTGGCTGC
CTGTTCCCTGTGCTCTTCAGAATTACTGTTTTTGTTCCTTTTACCCAGCTGCCATTAA
AGCCCAAACCTCTAGCCC

Gene 338. >ENST00000029410 cDNA sequence

AGCGCCTGCCCCATGCGCCGCGCCTCTCCGCACGATGTTCCCTCGCGGAGGAAAGCGG
CGCAGCTGCCCTGGGAGGACGGCAGGTCCGGGTTGCTCTCCGGCGGCCTCCCTCGGAAGT
GTTCCGTCTTCCACCTGTTTCGTGGCCTGCCTCTCGCTGGGCTTCTTCTCCTACTCTGGC
TGCAGCTCAGCTGCTCTGGGGACGTGGCCCCGGGCAGTCAGGGGACAAGGGCAGGAGACCT
CGGGCCCTCCCGTGCCTGCCCCCAGAGCCGCCCCCTGAGCACTGGGAAGAAGACGCAT
CCTGGGGCCCCCACC GCCTGGCAGTGCTGGTGCCCTTCCGCGAACGCTTCGAGGAGCTCC
TGGTCTTTCGTGCCCCACATGCGCCGCTTCTCTGAGCAGGAAGAAGATCCGGCACCATCT
ACGTGCTCAACACAGGTGGACCACTTCAGGTTCAACCGGGCAGCGCTCATCAACGTGGGCT
TCCTGGAGAGCAGCAACAGCACGGACTACATTGCCATGCACGACGTTGACCTGCTCCCTC
TCAACGAGGAGCTGGACTATGGCTTTCTGAGGCTGGGCCCTTCCACGTGGCCTCCCGG
AGCTCCACCTCTCTACCACTACAAGACCTATGTCGGCGGCATCCTGCTGCTCTCCAAGC
AGCACTACCGGCTGTGCAATGGGATGTCCAACCGCTTCTGGGGCTGGGGCCGCGAGGACG
ACGAGTTCTACCGGCGCATTAAAGGAGCTGGGCTCCAGCTTTTCGCCCCCTCGGGAATCA
CAACTGGGTACAAGACATTTCCGCACCTGCATGACCCAGCCTGGCGGAAGAGGGACCAGA
AGCGCATCGCAGCTCAAAACAGGAGCAGTTCAAGGTGGACAGGGAGGGAGGCCTGAACA
CTGTGAAGTACCATGTGGCTTCCCGCACTGCCCTGTCTGTGGGCGGGGCCCCCTGCACTG
TCCTCAACATCATGTTGGACTGTGACAAGACCGCCACACCTGGTGCACATTAGCTGAG
CTGGATGGACAGTGAGGAAGCCTGTACCTACAGGCCATATTGCTCAGGCTCAGGACAAGG
CCTCAGGTGCTGGGCCAGCTCTGACAGGATGTGGAGTGGCCAGGACCAAGACAGCAAGC
TACGCAATTGCAGCCACCCGGCCGCCAAGGCAGGCTTGGGCTGGGCCAGGACACGTGGGG
TGCTTGGGACGCTGCTTGCCATGCACAGTGATCAGAGAGAGGCTGGGGTGTGTCTGTCC
GGGACCCCCCTGCCTTCTGCTCACCCTACTCTGACCTCCTTACGTGCCCAGGCCTGT
GGGTAGTGGGAGGGCTGAACAGGACAACCTCTCATCACCCCCACTTTTGTTCCTTCTCTG

FIGURE 1 (CONT'D)

CTGGGCTGCCTCGTGCAGAGACACAGTGTAGGGGCCATGCAGCTGGCGTAGGTGGCAGTT
GGGCCTGGTGAGGGTTAGGACTTCAGAAACCAGAGCACAAGCCCCACAGAGGGGGAACAG
CCAGCACCGCTCTAGCTGGTTGTTGCCATGCCGGA

Gene 339. >ENST00000318185 cDNA sequence

CAAAAGATCGCAGTGGACTGTGTGATTGACCTGACAAGAGCTGAGGGAGAAAATAGACCT
ATTGCCACTCTTGACTTAACCTTTAGAACCTGTCACTCCTTCCAGAGGGAGCCAACAGT
CTTCAGACATGTGCCAGCCTCTCTGGCAAAGCGGTGATGGAAGGGCAGGTGGACAGAAGC
TCTCAGCCTACAGCACGGAGACTCATTAAACAGTGATCCTGTAGATTTGGACCTAGTGGAA
GAAAACACCTTTGTAGGTCCCCACCCGCTACATCCATCAGTGGAGGCTCTGTTTATCCA
ACAGAGCCTAATTGTAGCTCAGCCACATTACAGGTAACCTCAGCTTCTTGGCAAGTCTA
CAGCTGTCTTCAGATGTTAGCTCCCTCTCCCCAACAAGCAATAATAGTAGCAGCAGCAGC
AGCAATCAAAAAGTACCCTTGCCATGCCACAGCAAGATGTGTCTCGCCACCACAAGCC
TTGCCTTGCCCACTGAGAGCCTCACCTTGTCACCACGAGCCTTGTCATGCCCATCACAA
ACCATGCAGTGCAAACCTACCAGCTCTAACTCAACCACCTCAAGAAGTGCCATGCCCTCGG
CAGAATATCCCAAGCCACCTCAAGACTCGTTATGGCATCCTCAACACTCACCAAGCCCA
CCTCAAGACTCTCTGGGCCTACCTCAAGATGTGCCAGGCCCCGCTCAAAGCATATTACAT
CCACAAGATGTGGCATACTGCAAGACATGCCACAGTCACCAGGAGATGTGCCACGGTCA
CCAGGAACCATGCCACCATCACAGATGTGCCACAGTCAACAGGAGACATGCTAGGGTCA
CCAGGAGATGTGCCACAGTCACCAAGTTATGTTTACCAGTACCAGATGCACCACAGTCA
CCAGGGGGCATGCCACACTTACCAGGAGATGTGTTACATTACCTGGAGACATGCCACAC
TCATCAGGGGACGTGACACACTCACCTAGAGACATCCCTCACTTACCAGGAGACAGGCCT
GACTTTACCCAGAATGATGTACAGAACTGTGACATGCCTATGGATATCTCAGCTGCGTCC
CCTCCAAGCTGCTCTCCAGCCACAGTCTGAAACTCCCTTAGAGAAAGTTCTTGGCTC
TCTGTCTATGGAAACCCAGCCAGAAAAGAAATATCACTGTGAGAGCCTGCCAAACCTGGG
TCTGCCACGTACAATCACGAACACCAAGGTGGGTGTACAACAGACCATGCCTGCAT
AGACTGAAGTACTTCTTACGACCTCCGGTTCATCATCTGTTCTTTTCAGACGCTAATACCG
GATAAAGACACGAGAGAAACAAGGTCAAAAATTAGAAGCCATCCCTCATCGAAGACTAAG
AATGGTAACAAATACCATTTGAAGAGAATTTTCCCCTGGGGACTGTGCAGTTTTTGTGGA
CTTTGTGTCACCCCAGCATTACCCACCAAGAGAAATCGTGGCTCACATCATCCAGAAAAT
CTTGCTCAGTGGCTCTGAGACTGTGGATGTCTAAAGGAGGCCTACATGCTTCTCATGAA
AATTCAACGGCTACATCCAGCCAATGCCAAGACAGTGGAGTGGGACTGGAACTGCTCAC
CTATGTCTATGGAGGAAGAGGTAACAACAATTATAAGATTATATCTTCTGTAGGGGAAGTT
TTAACTATAAAGAAAAGTGATACCAGGTGCCATGGC

Gene 340. >ENST00000332522 cDNA sequence

GCACCGAAAGCGAAGGAAGCTCCTGCTCCTCCTAAAGCCGAAGCCAAAGTGAAGGTTTTA
AAGGCCAAGAAGGCAGTGTGAAAGGTGTCCGAGCCACAAAAGAAGATCCGCATGTCA
CCCACCTTCAGGCGGCCCAAGACACTGCGACTCCGGAGGCAGCCAGATATCCTCGGAAG
AGCACCCCCAGGAGAAAACAAGCTTGGCCACTATGCTATCATCAAGTTTCCGCTGACCACT
GAGTCGGCCAAGAAGATAGAAGAAAACAACACGCTTGTGTTCACTGTGGATGTTAAAGCC
AACAAGCACCAGATCAGACAGGCTGTGAAGAAGCTCTATGACAGTGATGTGGCCAAGGTC
ACCACCCTGATTTGTCTGTATAAAGAGAAACAAGGCATATGTTGACTTGCTCCTGATTAT
GATGCTTTTCGATGTTGTAACAAAATTGGGA

Gene 341. >ENST00000327705 cDNA sequence

GAAGCAGGCGGAGAAGAGACAAGAGAACTCACTGCAGAGCTGGAAAAGCTTCAGACAGA
GCTTGACTGGAGACGGGCTGAAGGCCAGGCTGAGTGGAGAGCAGCCAAAAATATGCAGT
GGATGTGACGCTGGACCCGGCCTCGGCGCACCCAGCCTGGAGGTGTGCGAGGATGGCAA
GAGCGTGTCTTCCGCGGGGGCGCGCCAGGCCCCGGCGCCTGGCCACCCGACGCGTTCTC
GGAGCAGACGTGCGCGCTGAGCCTGGAGCGGTTCTCCGCGGCGCGCCACTACTGGGAGGT
GCACGTGGGCGCGCGCAGCCGCTGGTTCTGGGCGCCTGCCTGGCCGCGGTGCCGCGCGC
GGGGCCTGCGCGCCTGAGCCCTGCGGCGGGCTACTGGGTGCTGGGGCTGTGGAACGGCTG
CGAGTACTTCGTCTGGCCCCGCACCGCGTCGCGCTCACCTGCGCGTGCCCCGCGGGCG
CCTGGGCGTCTTCTGGACTACGAGGCGGAGAGCTGTCTTCTTCAACGTGTCCGACGG
CTCCACATCTTCACCTTCACGACACCTTCTCGGGCGCGCTCTGTGCGTACTTCAGGCC
CAGGGCCACGACGGCGGCGAACATCCGGATCCCCTGACCATCTGCCCGCTGCCGGTTAG

FIGURE 1 (CONT'D)

AGGGACGGGCGTCCCCGAAGAGAACGACAGTGACACCTGGCTACAGCCCTATGAGCCCGC
GGACCCCGCCCTGGACTGGTGGTGAGGCGCCCTCGTGGCCGCGGACTGGCCCCGGGGGG
CCCCCTGGATCCAGGCCAGCGCTTTGCTCTCCTGCTCCGTCTGAAGGGAGCAGGTGCAC
CAGCCAAAATGTGAGCGAGGGGGACAAAGAGAGGGACCTTTGCTACGTAGATGTGTATG
TGTAGTGCATTTTTCTTCAAGGAAAGGAGACAAGTCAAAGCTCGTTTGTGGATTGTGGG
ACTGAGCGAAGGAGTACAAATATATCCACGTCGCTCAGAGCTGGGGTGCTCACGGTGGGC
GGTGGGCAAGAAGCCAGCATGGAAGAAAGAAGGGAGAAAACTTTGGTGAAGTGCCTTAGAG
GGATCAGTTAAATTTGTATAGTTTTATATTTTTTGTATATGTTTGCTAGCTCTAAAAAGGT
CGAGATGCAATAACACTTCGTAAGCAACGAGTTTACCTAAGTAAGGCTCAGATCCTAGTT
TTAAAAACCATTTCCATTAAAAATGAAGTTGGAGGAACAGCTGCTTCTGGAGCCGGGGCA
AAAATTTCAAGGTGAGCCTGGAGCATTGTGTGTGGTGAAGTAAAATAAAGGCTCAAAACG
TGACGGCAACCCGGCAAAAGGGTAGGGAGCCAGGCCGAAGGGGCTCACTGACCAATTGT
GGGACAATTTGAACATCAGGATGAATAATGACAGGAGAGATTATAACACACTGAAATAAAA
ACATAATCCATGAGTTTCATGCTGATACTCAAATTTCTTTTTTAAAAAGGAGAAACAGGAAG
GTTTTCTTTTGGAGGTGAAATCTAATTATTGGTGAAGTCTTGGAGAACAGGCTGTTTTCCA
GTCTCAAAGCAGTAACCTTATACACTACTTATAAGTTTGAAGGGGAAAGGTTACCTTTA
CAATGGAGACATCTACCAGATCATCCAAGTGATTAAATTTAACATCATCAATGATGGGAC
CAAGGACATTATTAGTTTGAACAACCTGGGGAAAGAAGTGTCTTCAACCCCTACCCCAAG
ACATTGTCTCTGTGCGCCAGGCTGGAGTGACAGCTCAACCTCCTGGGTCCAAGTGATCCT
CCCACCTCAGCACACAACACCATGCCCCAATTTTAAAGTGCCTTATAGAGACGGGGGTCTCA
CTTTGTTTACCCAGGCTGGTCTCAAACCTCCTGCGCTCAAGCAATCCTCCCACCTGGGCCTC
CCAAAATGCTGGGTGTACAGGCATGAGCCGCTGTGCCTGGCTTCATTTTCAGAGTGAGAC
ATTTGTACTGTGGCTATGTAGGAGAACATTCTTGTTCCTTAGCAAACTACTGAAGTTTTT
AGATATTAATTACCACAGTGTCTGCCACTGAATTTCCAGTGACTAAGTGGAAAAATATAA
AACATATGAATATAAAGAAAGAAAGAGACAAGTCAAATGTAGTAAAATGACAACTTTGG
TGACTCTAGGTGACTGGTTCGACAGATGTTTCATTGTACTATCAATGTGGCTTTGCTGTGGG
TTTGAAATTTTGCAAACTAAGAGTTGGGTGGCGGGGAGAAGGATACACCAAAAACTAAG
TGATTATCTTTGGATGGGAAAATGTTTGGTAATTGCATTCTTAAAATGTCTTCTTTGTAT
TTTTTAATGTTCAATAATGTATATGTATCAGTTCTGTAATAAAGGGGAAAACACTTTTTT
T

Gene 342. >ENST00000298708 cDNA sequence

ATATATCTTAGGGTGAAGATGGATAAATAATTCTGTACACGTGCCCTGGCCTCTGGAG
CTCAGCTGCCAGTCCACGTCTAGGGAATCTTAGCATCTGGGACCAAGACACTTTACAGCA
ATCATCACCTTTTGAGAGGAGGTGAGCTCACCAGGACTCATCTGCCATTTACAGACCTTT
TGCTGCTACCTGCCAGGTGGCCCCCACTGCTGACGAGAGATGGTGGACCTCTCAGTCTCC
CCAGACTCCTTGAAGCCAGTATCGCTGACCAGCAGTCTTGTCTTCTCATGCACCTCCTC
CTCCTTCAGCCTGGGGAGCCGAGCTCAGAGGTCAAGGTGCTAGGCCCTGAGTATCCCATC
CTGGCCCTCGTCGGGGAGGAGGTGGAGTTCCCGTGCCACCTATGGCCACAGCTGGATGCC
CAGCAAATGGAGATCCGCTGGTTCCGGAGTCAGACCTTCAATGTGGTACACCTGTACCAG
GAGCAGCAGGAGCTCCCTGGCAGGCAGATGCCGGCGTTCCGGAACAGGACCAAGTTGGTC
AAGGACGACATCGCCTATGGCAGCGTGGTCTGACGCTTACAGCATCATCCCCTCTGAC
AAGGGCACATATGGCTGCCGCTTCCAACCTCCGCAAACTTCTCTGGCGAAGCTCTCTGGGAA
CTGGAGGTAGCAGGGCTGGGCTCAGACCTTCACTCTCCCTTGAGGGCTTCAAGGAAGGA
GGCATTTCAGCTGAGGCTCAGATCCAGTGGCTGGTACCCCAAGCCTAAGGTTTCAGTGGAGA
GACCACCAGGGACAGTGCCTGCCTCCAGAGTTTGAAGCCATCGTCTGGGATGCCCAGGAC
CTGTTTCAGTCTGGAAACATCTGTGGTTGTCCGAGCGGGAGCCCTCAGCAATGTGTCCGTC
TCCATCCAGAACTCTCCTCTTGAGCCAGAAGAAAGAGTTGGTGGTCCAGATAGCAGACGTG
TTCGTACCCGGAGCCTCTGCGTGGAAGAGCGCGTTTCGTCCGACCCCTGCCGCTGCTGTTG
GTCCTCGCGGCGCTGGCGCTGGGCGTCTCCGGAAGCAGCGGAGAAGCCGAGAAAAGCTG
AGGAAGCAGGCGGAGAAGAGACAAGGTGAGCGGGGACAGGGCGTTCTGCACGCACCTGCC
CAAGTGCCAAAACCCCGCGTCATCTAAAGGCTGTGGGTCCCGTTACGAGGGTTTATTCCA
GCGCGAGGTGTACGGGCGGCCACCGGGGAACCGGGGATCGGTGACCCCGGTGGGGAAGGGG
GAAGATCGTTTCATATGGACAAAAGCGGAGGTGCGGAACGGCTGCATTTTCCACGGAGGCT
AGTGACAGATGTACGGGTTGACCGGCTGCTGTGCTTACGCCCTCGGAGCTTCAATCAC

FIGURE 1 (CONT'D)

ACTGTACAGAGGGAGCGGTGACAGGGTCTCTGCTGCCAGCGCCACCTCGTCCAGGTTTT
CATAGCGCACAGGGAGTCGGGCGGATGCGCAACATCTCCGCACAGGGTCAGGAAGCGGCG
GTCAGGCACCGAGAAAACAGCCAGTTACGTGAGGCAGTGTCCGGGGCTTAACGTTTCCG
CCGAGCTAATAGATTGTTGGGAGGCTCCGACCCTGATTTTCACTAGCAGGAGGGAGGGCG
CTGGGTCAACCTCCTATGCAGAAGGGCAGCCAAGGGTGCGCACTTCCCCATCCCCTGCCT
GGAGCCTCACTTCCAGCCAGCCTGGGCCCCGAGACCACCGGGTGGGAGTGCCGCATC
GGAGGTGAGGCCTCAGTGTTCAACCATCTGTTCTGTCTGCCTCATTCCCCAACCTGAGAG
TCTTTCCCCTTTTCTTCATCTTTTTTTTTTTTTTTTTTCTCTAGAGAACTCACTGCAGAGC
TGGAAAAGCTTCAGACAGAGCTTGGTAAGTGACCCCTCTTAGAACTATTTCTCCTCAGGG
CCGGGTCCAGTGGCTCACACCTGTAATCCAGTACTTTGGGAGGCCGAGGCGGGTGGATC
ACGAGGTGAGGAGATCGAGACCAGCCTGGCTAACACAGTGAAACCCCGTCTCTTCTAAAA
ATACAAAAAATTAGCCCGGCGTGGCGGCATGTGCCTGTAGTCCAGCTACATGGGAGGCT
GAGGCAGGAGAAGGGCGTGAAACCCGGGAAGCGGAGCTTGAGTGAGCCGAGATGGCGCCA
CTGCACTCCAGCCTGGGCGACAGAGCGAGACTCTGTCTC

Gene 343. >ENST00000301996 cDNA sequence

ACAGTTTGACATCGTTTCATGAAGAGCCTCTCCACGGCTCCTGCGCCTGAGACAGCTGGCC
TGACCTCCAAATCATCCATCCACCCCTGCTGTCTATCTGTTTTCATAGTGTGAGATCAACC
CACAGGAATATCCATGGCTTTTGTGCTCATTTTGGTTCTCAGTTTCTACGAGCTGGTGTC
AGGACAGTGGCAAGTCACTGGACCGGGCAAGTTTGTCCAGGCCTTGGTGGGGGAGGACGC
CGTGTCTCTCTGCTCCCTCTTCTCTGAGACCAGTGCAGAGGCTATGGAAGTGCAGTTCTT
CAGGAATCAGTTCCATGCTGTGGTCCACCTCTACAGAGATGGGGAAGACTGGGAATCTAA
GCAGATGCCACAGTATCGAGGGAGAACTGAGTTTGTGAAGGACTCCATTGCAGGGGGGCG
TGTCTCTCTAAGGCTAAAAACATCACTCCCTCGGACATCGGCCTGTATGGGTGCTGGTT
CAGTTCCCAGATTTACGATGAGGAGGCCACCTGGGAGCTGCGGGTGGCAGCACTGGGCTC
ACTTCTCTCATTTTCCATCGTGGGATATGTTGACGGAGGTATCCAGTTACTCTGCCTGTC
CTCAGGCTGGTTCCCCCAGCCACAGCCAAGTGGAAAGAGACGTTTTTCCAGCCCTCACC
TTGGCGCCTGGCTTCTATTTTACTCGGGTACTCTGTGGTGCCCTGTGTGGTGTGTGTCAT
GGGGATGATAATTGTTTTCTTCAAATCCAAAGGGAAAATCCAGGCGGAACTGGGTATGTG
TCATGTCTTGAGCCTCCACACATGGTTCTCCCGGTCCCTCCCTGATCCACAGTTTGAG
CCTCTGGACGACCCTGGCTGCAGGCTGGACAGGAAGCACCGGCAGCCTCTTACATGTTTT
TTGTTTTTGTTTTTGTTTTTTCTGACTGGAGAAGAAAGCACGGACAGGCAGAATTGAGAGA
CGCCCGGAAACACGCAGTGGAGGTGACTCTGGATCCAGAGACGGCTCACCCGAAGCTCTG
CGTTTCTGATCTGAAAACCTGTAACCCATAGAAAAGCTCCCCAGGAGGTGCCTCACTCTGA
GAAGAGATTTACAAGGAAGAGTGTGGTGGCTTCTCAGGGTTTCCAAGCAGGGAAACATTA
CTGGGAGGTGGACGTGGGACAAAATGTAGGGTGGTATGTGGGAGTGTGTGGGATGACGT
AGACAGGGGGAAGAACAATGTGACTTTGTCTCCCAACAATGGGTATTGGGTCTCTCAGACT
GACAAACAGAACATTTGTATTTTCACTTCAATCCCCATTTTATCAGCCTCCCCCCCAGCAC
CCCTCCTACACGAGTAGGGGTCTTCTGGAATATGAGGGTGGGACCATCTCCTTCTTCAA
TACAAATGACCAGTCCCTTATTTATACCTGCTGACATGTGAGTTTGAAGGCTTGTGAG
ACCCTATATCCAGCATGCGATGTATGACGAGGAAAAGGGGACTCCCATATTCATATGTCC
AGTGTCTTGGGGATGAGACAGAGAAGACCCTGCTTAAAGGGCCACACACAGACCCAG
ACACAGCCAAGGGAGAGTGCTCCCGACAGGTGGCCCCAGCTTCTCTCCGGAGCCTGCGC
ACAGAGAGTCAAGCCCCCACTCTCCTTTAGGGAGCTGAGGTTCTTCTGCCCCGAGCCCT
GCAGCAGCGGCAGTCACAGCTTCCAGATGAGGGGGGATTGGCCTGACCCTGTGGGAGTCA
GAAGCCATGGCTGCCCTGAAGTGGGGACGGAATAGACTCACATTAGGTTTAGTTTGTGAA
AACTCCATCCAGCTAAGCGATCTTGAACAAGTCACAACTCCAGGCTCCTCATTTGCTA
GTCACGGACAGTGATTCTGCTCACAGGTGAAGATTAAAGAGACAAACGAATGTGAATCA
TGCTTGAGGTTTGGGGCACAGTGTTTGCTAATGATGTGTTTTTATATTATACATTTTC
CCACCATAAACTCTGTTTGCTTATTCC

Gene 344. >ENST00000274605 cDNA sequence

GGCGATCGAGCGCCGCGGAGCGCGTCCCTCCCTCGCCAATCCGGCTCCGGCGCCGGCGCC
CGCCCGCGTTTTCCCGGCGCCTGCCGCTCCGCCGCTCCGACCCGGCACGCAGTCCCGGCC
CGAGCCGACGCTTGACAGGAGGTTCAAATCCGCGCGGGGGAGCTGCGACGCGCAAGGGC
TGCGGAGCCGCGGGCCGGCGAGCGCGTCCCAACCATGAAGCAGCTGCCTGTACCCTGTTG

FIGURE 1 (CONT'D)

AAACTTCATGGCCACAGCCCCAGGCCCTGCTGGCATTGCCATGGGCAGCGTGGGCAGCCT
 GTTGGAACGGCAGGACTTCTCCCTGAAGAGCTGCGGGCGGCACTTGCCGGGTCTCGGGG
 CTCCCGCCAGCCTGATGGGCTCCTCCGAAGGGCTTGGGCCAGCGTGAGTTCCTCAGCTA
 CCTGCACCTCCCCAAGAAGGACAGCAAGAGCACCAGAACACCAAGCGGGCCCTCGGAA
 CGAGCCTGCCGACTATGCCACCCTCTACTACCGGGAACATTCTCGCGGGGTGACTTCAG
 CAAGACCTCGCTGCCAGAACGGGTGCTTTGACAAGTGCCGCAATTCGCCCCCTCAGTGTT
 CAAGCCTACGGCGGGCAACGGGAAAGGCTTCTATCCATGCAAAGTCTGGCGTCCCACAA
 AGGCCAGAAGCTGTGGCGCAGCAATGGCAGCCTGCACACGCTGGCCTGCCACCCGCCCT
 GAGCCCCGGGCCCCGGGCCAGCCAGGCCCGGGCACAGCTGCTGCACGCCCTCAGCCTAGA
 TGAGGGCGGCCCTGAGCCCGAGCCAGCCTGTCCGACTCCTCCAGTGGGGGTAGTTTTGG
 TCGCAGTCTGGTACTGGCCCTAGCCCCCTTCAGCTCCTCCCTTGGCCACCTTAACCACCT
 CGGGGGCTCCCTGGACCGGGCTCTCAAGGACCCAGGAGGCTGGGCCACCAGCTGTGCT
 GAGCTGCCTGCCGAGCCACCACCCCTTACGAGTTCTCCTGCTCCTCTGCCGAGGAAAT
 GGGAGCCGTGCTGCCCGAGACCTGTGAGGAGCTCAAGAGGGGCTTGGCGATGAGGACGG
 CTCCAACCCCTTCACGCAGGTGCTGGAGGAGCGCCAGCGGCTGTGGCTGGCTGAGCTGAA
 GCGCCTGTATGTGGAGCGGCTGCACGAGGTGACCCAGAAGGCTGAGCGCAGCGAGCGCAA
 CCTCCAGCTGCAGCTGTTTATGGCTCAGCAGGAGCAGCGGCGCTGCGCAAGGAGCTGCG
 GGCTCAGCAGGGCCTGGCTCCGGAGCCTCGGGCCCCGGGCACCCTCCAGAGGCTGACCC
 CAGTGACAGCAGCAGAGGAGGAAGCCCCGATGGGAGGTGTGCCAGAAGACAGCAGAGATTAG
 CCTCTTGAAGCAGCAGCTGCGTGAAGCCAGGCGGAAGTGGCCAGAAGCTGGCGGAGAT
 CTTCAGTCTGAAGACACAACCTTCGGGGCAGCCGGGCACAAGCCAGGCTCAGGACGCAGA
 GCTGGTCCGGCTGCGCGAGGCTGTGCGCAGCCTGCAGGAGCAGGCCCTCGGGAGGAAGC
 CCCAGGCAGCTGTGAGACTGATGACTGCAAGAGCAGGGGCCTGCTAGGGGAGGCAGGAGG
 CAGCGAGGCCAGAGACAGTGCTGAGCAGCTGCGGGCTGAGCTGCTGCAGGAGCGACTTCG
 GGGCCAGGAGCAGGCGCTGCGCTTTGAGCAGGAGCGGCGGACTTGGCAGGAGGAGAAGGA
 GCGCGTGCTGCGCTACCAGCGGGAGATCCAGGGAGGGTACATGGACATGTACCGCCGCAA
 CCAGGCACTGGAGCAGGAAGTGCAGGGCACTGCGGGAGCCCCCACACCCTGGAGTCCCCG
 GCTCGAGTCTCTCAAGATCTGAGGCCAGCAGAGCGAGCTGACAGCAGCAACACTGTGAGA
 AGGTGCCCTGAGACGGCCGGCTCAGCCTTCCCTTGCACTGGTTGGGGTGGAACTGCAGA
 GGCCAGCCCCGGGGCTGGGGAGGCGCAAGGAGAGGAGGGATCCAGTGGGGCCGTGGGCTGG
 GTAGGGTGCCTTGGCAGGAGCCAGGACAAGGCCCTCCTGGCAGAGGAGCACCTAGGCAGG
 GCCCAGCCCTGCTTCTGAGTGGATGTGGCCAGAGAAGGAGGCTGGGGGATCACCAGC
 CCCAAGGTCCCGAAGGGCAGGTGAGAGGAGAGAGGCTGGAGACCTGGGCTGGGGCCTTC
 CTCAGGGAAGGAGGCTGGGGTGGGAACACTGGCCTCCCCCAGAATAAAACCATGTTTTTC
 T

Gene 345. >ENST00000274606 cDNA sequence

GATGACCTGGAAGTGATGCCTAAAGCTGTGGACCGCGTGGGCTCGCCTCCCTGGGACTAG
 GTTTTCAGCGGCCGCTGCGATGACCAAAATAAAGGCAGATCCCGACGGGCCCCGAGGCTCAG
 GCGGAGGCGTGTTCGGGGAGCGCACCTACCAGGAGCTGCTGGTCAACCAGAAACCCATC
 GCGCAGCCCCCTGGCTTCTCGCCGCCTCACGCGGAAGCTCTACAAATGCATCAAGAAAGCG
 GTGAAGCAGAAGCAGATTTCGGCGCGGGGTGAAAGAGGTTTCAAGAAATTTGTCAACAAAGGA
 GAAAAAGGGATCATGGTTTTTGGCAGGAGACACACTGCCCATTTAGGTATACTGCCATCTC
 CCAGTCATGTGTGAGGACCGAAATTTGCCCTATGTCTATATCCCTCTAAGACGGACCTG
 GGTGCAGCCGAGGCTCCAAGCGCCCCACCTGTGTGATAATGGTCAAGCCCCATGAGGAG
 TACCAGGAGGCTTACGATGAGTGCCTGGAGGAGGTGCAGTCCCTGCCCTTACCCCTATGA
 GGGGCTCCGGTAGCACCTGGGCACCTGCCGCTGGAAGCTATTGGGCTGGCAGCAGGACGA
 CTGGCTGTCTCCTGCCACCCACACTGACGGCATCTTCCAGTTCCCAAGGCACGCCT
 TCTTCCAGGCAGCTCTAACAGCCCTTTTCATGAAGGTAATGCTAGTCTTCTGTCCATCAG
 TGCCATTTCTGTAGAACTAAAGGCTGTTCCAAGAATGTGGGGTGGGGAAGTAAATGCT
 AAGACT

Gene 346. >ENST00000327842 cDNA sequence

ATGGGATCGTCGAGCAGCCGGGTGCTGGGCCAGCCGAGGCGAGCCCTTGCCAGCAGGAA
 CAGGGTGCCAGGGCCAGGGGCTCGGCCCGGAGGCCGACACTGGAGACGATGCGGCGAGC
 TACGGCTTCTGTTACTGCCCGGGCAGTCAACAAGCGCAAGCGGAGCAGCGGGGCTGCCCG

FIGURE 1 (CONT'D)

TACTGTGACCCGGACTCGCACAGGGAGGAGCATGAGGAGGAGGGGGACAAGCAGCAGCCG
CTCCTCAACACCCCTGCAAGGAAAAAATTAAGGAGTACATCCAAATATATTTATCAAACA
TTATTTTTTGAATGGTGAAACAGTGACATTAAGATTTGTGCTCTAGGAGAAGAATGGCGA
TTACACAAAATATATTTATGTCAATCTGGCTACTTTTCTAGTATGTTCACTGGTTCTTGG
AAAGAATCCAGCATGAATATTATTGAAGTGGAGATTCTTGACCAGAACATTGATGTAGAC
GCACTGCAGGTTGCGTTTTGGTTCACTGTATCGAGATGATGTCTTGATAAAACCCAGTCGA
GTTGTTGTCATTTTTGGCAGCAGCTTGTATGCTGCAGCTGGATGGTTTAATACAGCAGTGT
GGTGAGACAATGAAGGAAACAATTAATGTGAAAAGTGTATGCGGTTATTACACATCAGTA
GAGATCTATGGATTAGATTCTGTAAAGAAAAAGTGCCTTGAATGGCTTCTAAACAATTTG
ATGACTCACCAGAATGTTAACTTTTTTAAAGAACTCGGTATAAATGTCATGAAACAGCTC
ATTGGTTCTCTAACTTATTTGTGATGCAAGTGGAGATGGATGTATACACCACTCTAAAA
AAGTGGATGTTCTTCAACTTGTGCTTCTTGAATGGATCTTTAAACAGCTTTTGACA
GAAAAGATGTCTGGTTTTCTAAACAGAGAAAAGATTTGAAGGTATGGCCTTTCTTGAA
ACTGAACCAGGAAAACCATTTGTGTGAGTATTGAGACATTTAAGGTTACAATATATTATC
AGTGACCTAGCTTCTGCAAGAATTATTGAACAAGATGGTATAGTACCTTCAGAATGGCTG
TCTTCTGTGTATAAACAGCAGTGGTTTGCTATGCTGCGGGCAGAACAGACCGTGAGGTA
GGGCCTCAAGAAATCAATAAAGAAGACCTAGAGGGAAATAGCATGAGGTGTGGTAGAAAG
CTTGCCAAAGATGGTGAATACTACTGGTGTGGACGGGTTTTAACTTCGGCTTTGACCTA
CTTGTAATTTACACCAATGGATACATCATTTTTCAAACGCAATACACTGAATCAGCCACGC
AGCGGGTCTGTGAGTTTACGGCCTCGAAGGAGCATAGCATTTAGATTACGCTTGGCTTCT
TTTGATAGTAGTGGAAAAGTATGTAGTAGAACAAGTGGCTATCAAATACTTATACTT
AAAAAGGATCAGGAACAAGTGGTGTGAACTTGGACAGCAGGTTTCTGACCTTCCCTTTA
TATATCTGCTGTAACCTTCTGTATATATCACCAGAAAAAGGAATTGAAAATAATCGTCAC
CCAGAAAATCCAGAAAACCTGA

Gene 347. >ENST00000332649 cDNA sequence

GGCCGCAGCCATGAGCATGCTCGGGCCTCAGAAGAGGCTCGCCTCTAGTGTCTCCGCTG
TGGCAAGAAGAAGGTCTGGTTAGACCCCAAGTGAGACCAATGAAATCGCCAATGCCAACTC
CCGTGAGCAGATCCGGAAGCTCATCAAAGACGGGCTGATCATCCGCAAGCCTGTGACGGT
CCATTCCCGGGCTCGATGCCGGAACACCTTGGCCCCCGGAAGGGCAGGCACGTGGC
CATAGGTGAGCAGAAGGGTACAGCCAATGCCCGAATGCCAGAGAAGGTACATGGATGAG
GAGAATGACGATTTTGCGCCGGCTGCTCAGAAGATACCGTGAATCTAAGAAGATCGATCG
CCACACGTATCACAGCCTGTACCTGAAGGTGAAGGGGAATGTGTTCAAAGACAAGCGGAT
TCTCATGGAACACATCCACAAGCTGAAGGCAGACAAGGCCCGCAAGAAGCTCCTGGCTGA
CCAGGCTGAGGCCCCGAGGTCTAAGACCAAGGAAGCAGGCAAGTGCCCTGAAGAGCGCCT
CCAGGCCAAGAAGGAGGAGTTTCATCAAGACTTTATCCAAGGAGGAAGAGACCAAGAAATA
AAAGCTCCCCCTTTGTCTGTACATACTGGCCTCTGTGATTACATAGATCAGCCATGAAAA
TAAACAAGCCTTAA

Gene 348. >ENST00000303154 cDNA sequence

GCGGCGCCAGGACTGACTGCGCCGTGGAGGCTGCTGCAGTGTGTGAGTTGGAAGCTGGG
GAGCTCGGCATGGCGGTCCCCGCTGCAGCCATGGGGCCCTCGGCCTTGGGCCAGAGCGGT
CCCGGCTCGATGGCCCCGTGGTGTCTCAGTGAGCAGCGGCCGTCGCGCTACGTGCTTGGG
ATGCAGGAGCTGTTCCGGGGCCACAGCAAGACGCGCGAGTTTCGCGCACAGCGCCAAGGTG
CACTCGGTGGCCTGGAGTTGCGACGGGCGTCGCCTAGCCTCGGGGTCTTTCGACAAGACG
GCCAGCGTCTTCTTGCTGGAGAAGGACCGGTTGGTCAAAGAAAAAATTTATCGGGGACAT
GGGGATAGTGTGGACAGCTTTGTTGGCATCCAAGTAATCCTGACCTATTTGTTACGGCG
TCCGAGATAAAACCATTCGCATCTGGGATGTGAGGACTACAAAATGCATTGCCACTGTG
AACACTAAAGGGGAGAACATTAATATCTGCTGGAGTCTGATGGGCAGACCATTGCTGTA
GGCAACAAGGATGATGTGGTGACCTTTATGATGCCAAGACACACCGTTCCAAAGCAGAA
GAGCAGTTCAAGTTCGAGGTCAACGAAATCTCCTGGAACAATGACAATAATATGTTCTTC
CTGACAAATGGCAATGGTTGTATCAACATCCTCAGCTACCCAGAACTGAAGCCTGTGCAG
TCCATCAACGCCCATCCTTCCAACCTGCATCTGTATCAAGTTTGAACCCATGGGGAAGTAC
TTTGCCACAGGAAGTGAGATGCTTTGGTCAGCCTCTGGGATGTGGATGAGTTAGTGTGT
GTTCCGTGCTTTTCCAGGCTGGATTGGCCTGTAAGAACCTCAGTTTCAGCCATGATGGG
AAAATGCTGGCGTCAGCATCGGAAGATCATTTTATTGACATTGCTGAAGTGGAGACAGGG

FIGURE 1 (CONT'D)

GACAAACTATGGGAGGTACAGTGTGAGTCTCCGACCTTCACAGTGGCATGGCACCCCAA
 AGGCCTCTGCTGGCATTTCCTGTGATGACAAAGACGGCAAATATGACAGCAGCCGGGAA
 GCCGGAACGTGTGAAGCTGTTTGGGCTTCCTAATGATTCTTGAGAGGAGGTTGTAGGGAGA
 GGAGGCCCCCGGCAGAGGTCTTCCTTCATGTGGTTAGTTTGGTCTGTTCTCTCGGAGTTGG
 TGGGCACCCTAAATATTTGTAAGTTGGTATAAATTGTAAACGTCTCTGGTCAGGCTGCGC
 ATTTTCGTTCTTTTGCTTTGTCTGTGTATTAGCTCTTTCCATTCTTTGCCCCCAGCATGAG
 TTAACCTCGCGTGGACTCTGCAGTGCAGTAGTGACCCAGCATACCTTGTCCTCTGGACC
 TCCTGTCTTCTCTGCTTCTGGGTGCATGGTAGACTTTGTGGCATTGATACAACCTTGGAC
 AATACCTAGTTTGGAGGGAGGGGAATGGAAGGGCATGGAAGTTTTTTTTAAATAATTAAAA
 AAATATATATATAATTTTGAGAATTGAGCATTTAATAAACTGACTTTTGTATTATGG

Gene 349. >ENST00000274787 cDNA sequence

GAGGCTGAGGTTCGGAGTCCCATTCTCTCTGCTGTGGCCCCGACATGGCGACTCCC
 GGCCCTGTGATTCCGGAGGTCCCCTTTGAACCATCGAAGCCTCCAGTCATTGAGGGGCTG
 AGCCCCACTGTTTACAGGAATCCAGAGAGTTTCAAGGAAAAGTTCGTTTCGCAAGACCCGC
 GAGAACCCGGTGGTACCCATAGGTTGCCTGGCCACGGCGGCCGCCCTCACCTACGGCCTC
 TACTCCTTCCACCGGGGCAACAGCCAGCGCTCTCAGCTCATGATGCGCACCCGGATCGCC
 GCCCAGGGTTTACGGTTCGAGCCATCTTGCTGGGTCTGGCTGTCACTGCTATGAAGTCT
 CGACCCTAAGCCAGGGTCTGGCCTTGAAAGCTCCGAGAAATGATTCCAAAACCCAGGG
 AGCAACCACTGGCCCTACCGTGGGACTTACTCCCTCCTCTCCTTTGAGAGGCCCATGTGT
 CGCTGGGGAGGAAGTGACCTTTGTGTAAGTGAACCGAAAGTTTTTTTCAAAAATCCTAG
 ATGCTGTTGTTTGAATGTTACATACTTCTATTTGTGCCACATCTCCCCTCCACTCCCCTG
 CTTAATAAACTCTAAAAATCCACTTGTATTT

Gene 350. >ENST00000328179 cDNA sequence

GAGCAAGATGGCTGTGGAGCTGGGCGTGCTCGTCCGGCCCCGGCCCGGAACCGGGCT
 GGGTAGAGTGATGCGGACCTCCTGCTGGTGTGTGGCTGGCGACGCGCGGAAGCGCGCT
 CTACTTTTACATCGGAGAGACGGAGAAGAAGTGCTTTATTGAGGAGATCCCGGACGAGAC
 CATGGTCATAGGAACTACCGGACGCAGCTGTATGACAAGCAGCGGGAGGAGTACCAGCC
 GGCCACCCCGGGGCTTGGCATGTTTGTGGAGGTGAAGGACCCAGAGGACAAGGTCACTCT
 GGCCCGGCAGTATGGCTCCGAGGGCAGGTTCACTTTCACTTCCCATACCCCTGGTGAGCA
 CCAGATCTGTCTTCACTCCAATTCCACCAAGTTCTCCCTCTTTGCTGGAGGCATGCTGAG
 AGTTACCTGGAATCCAGGTAGGTGAACATGCCAATGACTATGCAGAAATTGCTGTCTAA
 AGACAAGTTGAGTGAGTTGCAGCTACGAGTGCGACAGCTGGTGGAACAAGTGGAGCAGAT
 CCAGAAAGAGCAGAACTACAGCGGTGGCGAGAGGAGCGCTTCCGGCAGACCAGTGAGAG
 CACCAACCAGCGGTGCTGTGGTGGTCCATTCTGCAGACCCTCATCTCGTGGCCATCGG
 TGTCTGGCAGATGCGGCACCTCAAGAGCTTCTTTGAAGCCAAGAAGCTTGTGTAGCTGTC
 CCAGGCGTCACAACCCATCTCTCCAGGCTGGGGGAGAAAGGACCTCCTGGAACCTGACTTC
 TTCTGTGAGGAGGACTGGTTTCCAGCCATACCTGTTCTGGAAGGGAGAGGGGCTGGAGGC
 ACCCACAGGCACAAGCTGAAGGCAGCAGCTTGCTAATACTGAGCAGGTAGTGGGGCAA
 TTCTTGCCCTCTCTCTCTGGCCCTCTGGGCCGTTTGGTAGTAATCACCCAGGGGCTGGTAA
 AGCCCCCTCTCTTGGCACCTCAGAATCACAGTGTTACTGATCAGGGATGTGAGGCTGCTG
 TTGGGGGTGGGGGAGGGGAATGGGCAGGCAAGCCAGTCTTCTGTCTTCTTTTGCTAACT
 TAGGGTTTTGAGCAGGTTGGGGTATGGTGCCTGTCTATACCCACCTGCCACCCTGGGAACC
 TCACTGTTCTCTCTTTTCAGCCTAGACCTGCTGATCCAGGGTGTGTGTGAGTTGAGGGTGG
 GTGGAGGGGTTTGCAGTGTGGGAATGTGGCCCTGCAGTTGACCTGAGCTGCTTCACATGG
 TTGTCCATTCTGGGGCTTAAAGAACTGGGACCAGACCAAGTAGAGGCCTTGGTGTGGTT
 GGGGTGGGGCCTGCAGAGTCTTAGTTACTGATTTTCATTTTCAATAAATGTAGGTTTGTTA
 CATGAGTTTCCC

Gene 351. >ENST00000313376 cDNA sequence

GATGACAGTGGCGCCGGAAGCCGGGGCCGGGGCTGCGGGGCGAGGCTGAGGCCACCATGG
 AGCAGTGTGCGTGCCTGGAGAGAGAGCTGGACAAGGTCCTGCAGAAGTTCTGACCTACG
 GGCAGCACTGTGAGCGGAGCCTGGAGGAGCTGCTGCACTACGTGGGCCAGCTGCGGGCTG
 AGCTGGCCAGCGCAGCCCTCCAGGGGACCCCTCTCTCAGCCACCCTCTCTCTGGTGATGT
 CACAGTGCTGCCGGAAGATCAAAGATACGGTGCAGAACTGGCTTCGGACCATAAGGACA
 TTCACAGCAGTGTATCCCGAGTGGGCAAAGCCATTGACAGGAACTTCGACTCTGAGATCT

FIGURE 1 (CONT'D)

GTGGTGTGTGTGTCAGATGCGGTGTGGGACGCGCGGGAACAGCAGCAGCAGATCCTGCAGA
TGGCCATCGTGGAACACCTGTATCAGCAGGGCATGCTCAGCGTGGCCGAGGAGCTGTGCC
AGGAATCAACGCTGAATGTGGACTTGGATTTCAAGCAGCCTTTCTAGAGTTGAATCGAA
TCTTGAAGCCCTGCACGAACAAGACCTGGGTCTGCGTTGGAATGGGCCGTCTCCACA
GGCAGCGCCTGCTGGAACCAACAGCTCCCTGGAGTTCAAGCTGCAACGACTGCACTTCA
TCCGCCTCTTGGCAGGAGGCCCGCGAAGCAGCTGGAGGCCCTCAGCTATGCTCGGCACT
TCCAGCCCTTTGCTCGGCTGCACCAGCGGGAGATCCAGGTGATGATGGGCAGCCTGGTGT
ACCTGCGGCTGGGCTTGGAGAAGTCAACCTACTGCCACCTGCTGGACAGCAGCCACTGGG
CAGAGATCTGTGAGACCTTTACCCGGGACGCTGTTCCCTGCTGGGGCTTTCTGTGGAGT
CCCCCTTAGCGTCAGCTTTGCCTCTGGCTGTGTGGCGCTGCCTGTGTTGATGAACATCA
AGGCTGTGATTGAGCAGCGGCAGTGCCTGGGGTCTGGAATCACAAGGACGAGTTACCGA
TTGAGATTGAACTAGGCATGAAGTGTGTTACCACTCCGTGTTGCTTGCCTCATCTCC
GCCAGCAGACGTGAGATTCCAACCTCCCATCAAGCTCATCTGTGGCCATGTTATCTCC
GAGATGCACTCAATAAGCTCATTAAATGGAGGAAAGCTGAAGTGTCCCTACTGTCCCATGG
AGCAGAACCCGGCAGATGGGAAACGCATCATATTCTGATTCTACCTGGAAGGAATTTTG
TTGAAAGGGGTTTTTACCTGTGAGCCTTGGTCTGTCTCGGTAGGGTGGTCAACTTCAGTG
GACTGTGGTTGGTTTTCAGAGCGCCTGGCTGAGGAGTTCCACTGAGGGGAGCACTGGAGCA
GCCCTTTGGCAGAGGCTGAGGAGGGAGATGGACCAGCCACGCTGGCACCTGGCTCCAT
GGCATAAGGAAAGGGAGATGCTGGCCTCTGTGCTCCTGCTGTCTTTTCTGTTTCTGTTT
GCGTTTGACTTAGTAGCAACCGACAGAGTGGCAAGGGATTGGTCTTCAGCAGTAGACAT
CCTTCCACCCCTGCCCTCAGCCAAGTCTCTTGCTGCCATGCCAATGCTATGTCCACCCTT
GCCCCTCGGCCCAAGAGTGTCCAGCGGTGGCCACCTCTTCTCCCACTACAGCCTCAAC
AGTATGTACCATCTCCCACTGTAAATAGTCCCAGTTAGAACGGAATGCCGTTGTTTTATA
ACTTTGAACAAATGT

Gene 352. >ENST00000261953 cDNA sequence

AAAGGGCGCCACGAGTCGGCATTGTGAGGCGGCGGCACCGCGCGGGACGGAGCTTGGCTG
TTGGTGGTGGGTTCCCGTGCAGGCGGCGGCCAAGGAGGAGGAGACACAGTTGGAGCAGCT
CCGTGGGCTGACTGGGGCGAGGCCTCAGCAGCGCGAGCTTGAGTGCAGCGGAGCCTGCGG
CGCCTTCCCTGCGGGTGGGGACGAGCGGGCCCCGCGCGTCATCGGCGGCGAGGAGCCG
CCGCGCCTCGGCCTAGCATGTGCGAAGCGGGCGAGGAGCAGCCATGGAGACGACGGGCG
CCACCGAGAACGGACATGAGGCCGTCCCAGAAGCGAGTCGCCGGCCGGGGCTGGCACGG
GCGCCGCGGGGCTGGAGGCGCGACCGCGCGCCCCGAGCGGGAATCAGAACGGCGCCGG
ACCAGATCAACGCCAGCAAGAACGAGGAGGACGCGGGAAAAATGTTGTTGGTGGCCTGA
GCTGGGATACTAGCAAAAAAGATTAAAAGACTATTTTACTAAATTTGGAGAGGTGCTTG
ACTGTACAATAAAAAATGGATCCCAACACTGGACGGTCAAGAGGGTTTGGGTTTATCCTGT
TCAAAGATGCAGCCAGTGTGGAGAAGGTCTAGACCAGAAGGAGCACAGGCTGGATGGCC
GTGTCAATTGACCTAAAAAGGCCATGGCTATGAAGAAGGACCCGGTGAAGAAAATCTTCG
TTGGGGGTCTGAATCCTGAAGCCACTGAGGAAAAGATCAGGGAGTACTTTGGCGAGTTTG
GGGAGATTGAGGCCATTGAATTGCCAATGGATCCAAAGTTGAACAAAAGACGAGGTTTTG
TGTTTATCACCTTTAAGAAGAAGAACCCGTGAAGAAGGTTCTGGAGAAAAAGTTCCATA
CTGTGAGTGAAGCAAGTGTGAGATCAAGGTGGCCAGCCCAAGAAGTCTATCAGCAGC
AGCAGTATGGCTCTGGGGGCCGTGGAAACCGCAACCGAGGGAACCGAGGCAGCGGAGGTG
GTGGTGGAGGTGGAGGTGAGAGTCAGAGTTGGAATCAGGGCTACGGCAACTACTGGAACC
AGGGCTACGGCTACAGCAGGGCTACGGGCCTGGCTATGGCGGTACGACTACTCGCCCT
ATGGCTATTACGGCTACGGCCCCGGCTACGACTACAGTCAGGGTAGTACAACTACGGCA
AGAGCCAGCGACGTGGTGGCCATCAGAACTAACAAGCCATACTGAGGCGGCAGCAGGA
GCGACCAACTGATCGCACACATGCTTTGTTTGGATATGGAGTGAACACAATTATGTACCA
AATTTAACTTGGCAACTTTCTATTGCCTGTCCCATGTGCATCTTATTTAAAATTTCCCC
CATGGAAATCACTCTCCTGTTGACTATTTCCAGAGCTCTAGGTGTTTAGGCAGCGTGTGG
TGTCTGAGAGGCCATAGCGCCATCATGGGCTGATTTTTATTACCAGGTCCCCCAGAAGCA
GGTGGGAGGCTCTGCTTCTGCTGCCGCTCTGCAGCCTGGACCTGTGGACCCTGGTTGTA
AAGAGTAAATTGTATCTTAGGAAACAGTGTACCTTTTTTTTACCTTTTAATTTTATAT
TATTTGCGTCATACATTTCTGTAAACGGAAGTGTTAATTTTACTGTACTTTTGGTACCT
TTTGGGAATCTAATGTATTGTAAGGTATTTTACAGTGTCTGATTTTGCCACAACCTGG

FIGURE 1 (CONT'D)

ATATTGAAGCTATCCAAGCTTTTGAATATAAATTTAAAAACCCCC

Gene 353. >ENST00000307328 cDNA sequence

GTCAGGCGGGCGGCACCGCGCGGGACGGAGCTTGGCTGTTGGTTCGGTGGGTTCCCGTGCGG
CGGCGGCCAAGGAGGAGGAGACACAGTTGGAGCAGCTCCGTGGGCTGACTGGGGCGAGGC
CTCAGCAGCGCGAGCTTGAGTGCGGCCGAGCCTGCGGCGCCTTCCCTGCGGGTGGGGAC
GAGCGGGCCCCGCGCGTTCATCGGCGGCGAGGAGCCGCGCGCTCGGCCTAGCATGTCTG
GAAGCGGGCGAGGAGCAGCCCATGGAGACGACGGGCGCCACCGAGAACGGACATGAGGCC
GTCCCCGAAGGCGAGTCGCGCGGCGGGGCTGGCACGGGCGCGCGGGGCTGGAGGCGCGA
CCGCGGCGCCCCGAGCGGGAATCAGAACGGGCGCGGACAGATCAACGCCAGCAAGAAC
GAGGAGGACGCGGGAAAAATGTTTCGTTGGTGGCCTGAGCTGGGATACTAGCAAAAAAGAT
TTAAAGACTATTTTACTAAATTTGGAGAGGTCTTGAAGTGTACAATAAAAAATGGATCCC
AACACTGGACGGTCAAGAGGGTTTGGGTTTTATCCTGTTCAAAGATGCAGCCAGTGTGGAG
AAGGTCCTAGACCAAGAGGACAGGCTGGATGGCCGTGTATTGACCTAAAAAGGCC
ATGGCTATGAAGAAGGACCCGGTGAAGAAAATCTTCGTTGGGGGTCTGAATCCTGAAGCC
ACTGAGGAAAAGATCAGGGAGTACTTTGGCGAGTTTGGGGAGATTGAGGCCATTGAATTG
CCAATGGATCCAAAGTTGAACAAAAGACGAGGTTTTGTGTTTTATCACCTTTAAAGAAGAA
GAACCCGTGAAGAAGGTTCTGGAGAAAAAGTTCCATACTGTCAAGTGAAGCAAGTGTGAG
ATCAAGGTGGCCAGCCCAAAGAAGTCTATCAGCAGCAGCAGTATGGCTCTGGGGGCGGT
GGAAACCGCAACCGAGGGAACCGAGGCAGCGGAGGTGGTGGTGGAGGTGGAGGTGAGGGT
AGTACAACTACGGCAAGAGCCAGCGACGTGGTGGCCATCAGAATAACTACAAGCCATAC
TGAGGCGGCAGCAGGAGCGACCAACTGATCGCACACATGCTTTGTTTGGATATGGAGTGA
ACACAATTATGTACCAATTTAACTTGGCAACTTTCTATTGCCTGTCCCATGTGCATCT
TATTTAAAATTTCCCCCATGGAAATCACTCTCCTGTTGACTATTTCCAGAGCTCTAGGTG
TTTAGGCAGCGTGTGGTGTCTGAGAGGCCATAGCGCCATCATGGGCTGATTTTTATTACC
AGGTCCCCCAGAAGCAGGTGGGAGGCTCTGCTTCCTGCTGCCGCTCTGCAGCCTGGACCT
GTGGACCTGGTTGTAAAGAGTAAATTGTATCTTAGGAAACAGTGTACCTTTTTTTTCA
CCTTTTAATTTTATATTATTTGCGTCATACATTTTCTGTAAACGGAAGTGTTAATTTTACT
GTACTTTTTTGGTACCTTTTGGGAATCTAATGTATTGTAAGGTATTTTACACGTGTCCTGA
TTTTGCCACAACCTGGATATTGAAGCTATCCAAGCTTTTGAATATAAATTTAAAAACCCC
C

Gene 354. >ENST00000310389 cDNA sequence

ATCTTCGGCGGGCGAGTGGGCTCGGCCTGTGCAACCCGCACCTGCGTCCCTCGCCCGGCC
CGATGGCGCCGCGGCGCTGGGCCCCCTTGGTGTGGCGCTGGGCGGCGCCGCGGCGGTGC
TGGGCTCGGTGCTCTTCATCCTCTGGAAGACCTACTTCGGCCGCGGCGGAGAGCGGCGCT
GGGACCGGGGAGAGGCTGGTGGGGCGCGGAGGCTGCCCGCTCCCGAGTGGGACGAGT
GGGACCCCGAGGACGAGGAGGACGAGGAGCCGGCGCTGGAGGAGCTGGAAACAGCGCGAGG
TGCTGGTGTGGGGCTGGATGGCGCAGGCAAGAGCACGTTCTGCGCGTGTGTGCGGGGA
AGCCACCGCTGGAAGGCCACATCCCCACCTGGGGCTTCAACTCCGTGCGTCTGCCACCA
AGGACTTTGAGGTGGACCTGCTAGAAATTGGGGGAGCCAGAACCTGCGCTTCTACTGGA
AGGAGTTTGTGAGCGAGGTGGATGTGCTGGTGTGTTGTGGTGGACTCGGCTGACCGACTGC
GGCTGCCCTGGGCCCCGACAGGAGCTGCACAAGCTGCTGGACAAGGACCTGACCTGCCTG
TCGTGCTGGTGGCCAAACAGCAGGACCTGAGCGAGGCCATGAGTATGGGGGAGCTGCAGC
GGGAGCTGGGTCTACAGGCTATCGATAACAGCGGGAGGTTTTCTCTTGGCAGCCAGCA
TTGCCCTTGCAGGACCCACCTTTGAAGAGCCTGGCACCGTGCACATCTGGAAACTGCTCT
TGGAGCTCCTCTCCTAGGCTGGAGCTCTCCTGCTTGCCACCTGCCTGTCAAGACCATAGT
TGTAAGTGTGCTGCTTCATTGCCAGACTGGGCTGGGGCAAGAGCCACATGGCAGCATTT
CCCTTTTCCCCTCCTTTGCCTTTCAAGAGCAGGGCCTGGGCAAGGCCAAGAACCATGCAG
AAGCCTTCTGGTGGAGGTGGCCGTGAAGCCGAAGCAGGGAGGTGGGTGAGACAGAGGGTG
GGGAGGATAGTGTCTGGCTCATTCCAGGCTGGAATGTGGATCCAGCTTTCCCTTCTCTTA
CCTGTACAGTGAGATGCTCAGTGGGCTCAATCCTCCACTACAGGTCCCGGTACCTGAGGA
ACCAAGTGTAGGTGTGAGAAATACTCCTAGAGCCTCAAGGTCTCCAGTCCAGAAACAGTC
TGGTGAAGTGCATGCCCTTCTCATGTGGGCGAGCTTCTGAGTGGTGACACAGCAAGCCTTTG
TTCCTGTCTGCATTGTCCAGCCCCAGCTCCACCTAAGTGACTTGTGGCCTTGTGCAATC
TCTGCCTCTCTGACCCAGGGCCATTATTTTAAAGGGAGGTGGTTTCTAATTTCGGAGA

FIGURE 1 (CONT'D)

TGCCTTTCCCAGCCATGGGAGTGTGAAGTGCTAGGATGAACCTGGCCATCCTAGCAAGGA
GCTTTCTGAAGACCTCCCTGCCTTTCCCTGAGCCCAGGCCTGGCCTGCCAGCCTCTCTTG
ACTACAGAATAACTGATATTCAACCAACAGAAAAAGTGAAGGCTGGGTTTTTCCCC
TCTAATCTGGAGACAAGCTGCTGCTCTCGTACTAACTGTGCCAGTGCCCATGTTTACAGA
AGTCAGGGGAAGGAAGGAGCCTGTGTCCCTGGGACGACAGTCAACTGGAGCTAGGTGTTG
ACCTCAGAACTGCATTTTTATTTATTAATTTATAAGCAGAACAGGCCAGAGTTCTAGGCTC
TGTTTCTAGGTGCTGTTTTCAAACCCCAGATGACAGTCATAGAAAATTTGGAACCTTAGG
AAAATAGCTGGAATCATGAATGACAATGAGATAACATACAGATGTCAGTGGAGACAAAGT
TGTGGGTTCTCCTCCACCTGGCTTTGAGGCTGTCTCGATATCATAGTACTTTACATG
GATTACATGAACTGAAACGCCACCACTTGGCCCAGGATGTTGAAAGGGTGCAAATTCCT
TCTGGGTAGATAAGAAATGACTCTGGGAGAGGATTTCCCTTATGTGAATCTAGGTAAAA
GATGGAATAAATTGTATTATGTGATCCTAAGGACAGGAATAGCAGACCAGCCAACGGGA
TGGCCTTGGGTACATCACTCAGCCTTTCTGGACCCAATTTTTCCCAGTGAAAGCCAAGT
TGGACTGAATTTCTGGAGTTCTCATCAGTGACATTCCATAGTTCTCCAGTGCTTGGCGA
TCAGCCCAATTGAAGGACTGGCTCTGTACTGACACTTATTATCGGTACAGGCAAAGAGGA
GCCTGTTGTCTGTTAGGGACCACTAAATCAACAACCAAAATGGATTTTTTTTTTAAGAG
GAGCTGTGCACCTCAATTTGCTGTCTAGTTGAGAATAGAGATTGTGTGCCTTCATTTCAT
TT

Gene 355. >ENST00000327101 cDNA sequence

GAGAGACAGAGGCAGCGTGTTTTGAGCTGCTGGTGCGGTGGTCAGCGCGATGCCCCAAGGCC
AAGGGCAAAACCCGGAGGCAGAAAGTTTGGTTACAGTGTCAACCGAAAGCGTCTGAACCGG
AATGCTCGACGGAAGGCAGCGCCGCGGATCGAATGCTCCACATCCGACATGCCTGGGAC
CACGCTAAATCGGTACGGCAGAACCTGGCCGAGATGGGGTTGGCTGTGGACCCCAACAGG
GCGGTGCCCCCTCCGTAAGAGAAAGGTGAAGGCCATGGAGGTGGACATAGAGGAGAGGCCT
AAAGAGCTTGTACGGAAGCCCTATGTGTGTAATGACCTGGAGGCAGAACCCAGCCTTCCA
GAAAAGAAAGGAAATACTCTGTCTCGGGACCTCATTGACTATGTACGCTACATGGTAGAG
AACCAACGGGGAGGACTATAAGGCCATGGCCCGTGATGAGAAGAATTACTATCAAGATACC
CCAAAACAGATTTCGGAGTAAGATCAACGTCTATAAACGCTTTTACCCAGCAGAGTGGCAA
GACTTCCTCGATTCTTTGAGAAGAGGAAGATGGAGGTGGAGTGAAGTGGTTTACATCACA
GCTGCCCCAGGCTGAGGCGTCCCCCGGACCAAGTGAAGCTGGAGCCAGGGTGTAAAGCAAG
GAGGTGCTGTGTGGCTCCAGAGGAGCTGGCCAGGTCCCATGGAATCAGAAGGTTACACAC
ACGTGCACACTCCCCGCTCTGGGGAAGGAACTGTTCTCAGAGGCTCCAATTTATATTAT
CTGGGGGTTTACGGAAAAGCCAGAACCTGCTGTTTTTCAAGGTGGGTGATGTAAATATAGT
GTGTACATAATAAGCAAATATATTTTACTTCTCT

Gene 356. >ENST00000310407 cDNA sequence

ATGGCTGATGACTTTGGCTTCTTCTCGTCTCGGAGAGCGGTGCCCCGGAGGCGGCGGAG
GAGGACCCGGCGGCCCGCTTCTGGCCAGCAGGAGAGCGAGATTGCAGGCATAGAGAAC
GACGAGGGCTTTCGGGACCTGCGGCAGCCATGCGGCCCCCGCGCAGCCGGGCCCCACG
AGTGGGGCTGGTTCTGAGGACATGGGGACCAAGTCAATGGAGATGTGTTTCAAGAGGCC
AACGGTCTGCTGATGGCTACGAGCCATTGCCAGGCTGACAGGCTGACCCAGGAGCCT
GAGAGCATCCGCAAGTGGCGAGAGGAGCAGAGGAAACGGCTGCAAGAGCTGGATGCTGCA
TCTAAGGTACGGAAACAGGAATGGCGGGAGAAGGCCAAGAAGGACCTGGAGGAGTGGAAAC
CAGCGCCAGAGTGAAACAAGTAGAGAAGAAACAAGATCAACAACCGGCATCCGAGGAGGCT
TTCGTGAAGGAATCCAAGGAGGAGACCCAGGCACAGAGTGGGAGAAGGTGGCCAGCTA
TGTGACTTCAACCCCAAGAGCAGCAAGCAGTGCAAAGATGTGTCCCGCCTGCGCTCGGTG
CTCATGTCCCTGAAGCAGACGCCACTGTCCCGCTAGGTGCCTGCTAGGTGCATGGCCACA
GAGCATGGGCTGGGCTGGGCAAGGAGGAGCAGCTGCTTTGGTTCGGGGTGGAGACTCGC
AGCAGCTGCTACCCACAGCCTATTCCACTCCTCCCCATCTCCAGGCGCTGGGAGGGGGG
CCTCACCCCATCACGCCTCGCTCCCTCCTGGCCCTCTGGTCCAGCCCCCTCACGCCTCCTC
TCAGTCTACTCAATTGTGACTGTCCCTCCTGATGTATTTTTTTTCTTGGCTTAAAGGGTG
TGTTGTTGACTCTTTTTACACTTATTTATTATCATTCTCACTTCTCTGGAAGCC

Gene 357. >ENST00000310418 cDNA sequence

ATGGCTGATGACTTTGGCTTCTTCTCGTCTCGGAGAGCGGTGCCCCGGAGGCGGCGGAG
GAGGACCCGGCGGCCCGCTTCTGGCCAGCAGGAGAGCGAGATTGCAGGCATAGAGAAC

FIGURE 1 (CONT'D)

GACGAGGGCTTCGGGGCACCTGCCGGCAGCCATGCCGCCCCCGCGCAGCCGGGCCCCACG
 AGTGGGGCTGGTTCTGAGGACATGGGGACCACAGTCAATGGAGATGTGTTTCAGGAGGCC
 AACGGTCCTGCTGATGGCTACGCAGCCATTGCCAGGCTGACAGGCTGACCCAGGAGCCT
 GAGAGCATCCGCAAGTGGCGAGAGGAGCAGAGGAAACGGCTGCAAGAGCTGGATGCTGCA
 TCTAAGGTCA CGGAA CAGGAATGGCGGGAGAAGGCCAAGAAGGACCTGGAGGAGTGGAAC
 CAGCGCCAGAGTGAA CAAGTAGAGAAGAA CAAGATCAACAACCGGATCGCTGACAAAGCA
 TTCTACCAGCAGCCAGATGCTGATATCATCGGCTACGTGGCATCCGAGGAGGCTTT CGTG
 AAGGAATCCAAGGAGGAGACCCAGGCACAGAGTGGGAGAAGGTGGCCAGCTATGTGAC
 TTCAACCCCAAGAGCAGCAAGCAGTGCAAGATGTGTCCCGCCTGCGCTCGGTGCTCATG
 TCCCTGAAGCAGACGCCACTGTCCCGTAGGTGCCTGCTAGGTGCATGGCCACAGAGCAT
 GGGCTGGGCCTGGGCACAGGAGGAGCAGCTGCTTTGGTGGGGGTGGAGACTCGCAGCAGC
 TGCTACCCACAGCCTATT CCACTCCTCCCCATCTCCAGGCGCTGGGAGGGGGGCCCTCAC
 CCCATCACGCCTCGCTCCCTCCTGGCCCTCTGGTCCAGCCCCTCACGCCTCCTCTCAGTC
 TACTCAATTGTGACTGTCCCTCCTGATGTATTTTTTTTCTTGGCTTAAAGGGTGTGTTGT
 TGACTCTTTTTTACACTTATTTATTATCATTCTCACTTCTCTGGAAGCCA

Gene 358. >ENST00000298569 cDNA sequence

GGTACTGCTACCTAGTGGGTCTTGGGGACCTTCGAAATCGCCGCCGCTCTCACAATGGCT
 TGGGTCCAGACTGCGCCACAGCCTCTCGGGAGACGTGGGCCCTCGGAACCTTTTTTAGTGC
 CGGACTCCGGGCCGCGAGGCAGTCCCGCGGCAGCAGGATCACAGAA CCTCTGGATGGACTC
 TTCCTGGGAAGCTTTGCTACTTTGCAGCAGCTGGACCATGTTTCTCATTAAACATCTGTCT
 GTCCGCTTAGTCATCACATCATTTCACTGTGGTGGCAGGGACTCAGCTCGGAATTCTGTA
 TAGAAAAAGCACCTGGATCCAGTCTTTCAATGGCTTCAAGACAACAGAAAGTGCCTGCT
 CTTGAGGCTAGTGCGCCTCTAGGCAAGATGTCCCTGCCCATCGGGATATACCGCCGGGCA
 GTCAGCTATGATGATACCCCTCGAGGACCCCTGCGCCCATGACTCCTCCTCATCGGACATG
 GGCAGCGTCCCTTGAAGCCAGTGATTCCAGAGCGCAAGTATCAGCACCTCGCCAAGGTG
 GAGGAAGGAGAGGCCAGTCTACCCCTCCCCTGCCATGACCCTGTCTATCAGCCATTGACAGT
 GTGGACAAGGTCCCAGTGGTGAAGGCTAAAGCTACCCATGTCTATCATGAATTCTCTGATC
 ACAAAAAGACCCAGGAAAGCATTTCAGCATTTTGGAGCGACAGGCAGGGCTGAGAGATGCT
 GGCTACACACCCCACAAGGGCCTCACCACCGAGGAGACCAAGTACCTTCGAGTGGCCGAA
 GCACTCCACAAACTAAAGTTACAGAGTGGAGAGGTAACAAAAGAAGAGAGGCAGCCTGCA
 TCAGCCCAGTCCACCCCAAGCACCCTCCGCACTCTTCACCTAAGCAGAGGCCAGGGGC
 TGGTTCACTTCTGGTTCTTCCACAGCCTTACCTGGCCCAAATCCTAGCACCATGGACTCT
 GGAAGTGGGGATAAGGACAGAACTTGTCTAGATAAGTGGAGCCTCTTTGGACCGAGATCC
 CTTTCAAGATACGATTCTGGAAGTTTTGCCACCCAGGCCTACCGAGGAGCCCAGAAGCCC
 TCTCCATTGGAACCTGATACGTGCCAGGCCAACCGAATGGCTGAAGATCCAGCAGCCTTG
 AAGCCCCCAAGATGGACATCCAGTGATGGAAGGAAAGAAACAGCCACCACGGGCCCCT
 AACCTCAAACCCCGTGACCTGAATGTGCTCACACCCACTGGCTTCTAGAGCCCTCTTTCC
 AGGGATTCTGGTAAAGGTGGTTTTCTTGTCATCCCACTCCCCTTTTACCTTGGCTTTGACAT
 AGGAAAGGTATATTTAAAAAATAATCAGCTGGGCGTGGTGGCTCACGCCTGTAATCCCA
 GCACTTTGGGAGGCCAAGGTAGGTGGATACCTGAGGTGAGGAGTTCAAGACCAGCCTGGC
 CAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCTGGGCGTGGTGGTGGG
 CGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCCTGAACCCAGGAAGC
 AGATGTTGTA CCGAGCTGAGATCATGCCATTACACTCCAGCCTGGGCGACAGAACGAGAC
 GCCATCAATAAATAAATAAATAAAGTAAAGTAAAAAACCTATTAAATTGAGGCTAGAGCT
 GGAGATGTAATTGGTTTTTTGAGAAACATTAGTATAAAGCTTGCCCTTGTTGTGTGGAAGA
 AGCCATTTTGTACTGCTTTAAAGTTAGACTAATATTCTCAGCACGGGTGTATGGGGACCT
 CATTACCTATTTTTTTTCATCATTTACCCTAGGTAAGAACTTTGATCACTGCTTACTAGGT
 AAAGAATGTTTGTACTGTTCCAAAACCCAGGCTTCTTTATTCTTTTACCCTATCCATGT
 GAGCATTGACAAATCATGGCTTAGAGGTGCTCACTGACTCGCTAAGACGACTTTGGCCCT
 GTTGATGACTGGTGCTGTGCTCCAGCCTTATCAGTTAGGGGACCCAGGTTTGTTTGGGA
 CCTGGGTACAGGTAAAAGCCAGACTTGGCAGGGACCCCTCTTTCTAGGCTGAACCTTGAG
 TCCCCCTGCTTTTTTGGCAGACCTAATGGATCACTGTCTTGAGCTAGTTCTTCATGTGGG
 GCCTCTTAGGCCAGTGCCGGAGGAGGCATGCTCCTCTTTCTATGCCACAGAACAAACACT
 ACTCTAGCAGAGCCTTTCTTGCACTTTAAAGTGAGATTAAATTTAGCTGTAATTTGGTTAA

FIGURE 1 (CONT'D)

AAACTTCCTAAGAGAGAAAAATTAAGTCTACTGATTTGGTATAGGTAAATGGACATTAAAC
TTTTTTTAAAGTAAAGGAGATGGTAGATACCGTTAGATTATAGTCTTGAGGTTTCATGTGAA
GCCAGTGGTGTAACTTACTTTGATTTCTTGTTCAGGTCAGGGCCTGGAACGCCTGTGC
GGGAGGTCACTCAATTCAAATTTTCTGTATGAAAGCATTTTTACCAGAAATGAGCCTC
ATCCCTTTATGCAACACATAACCTTACTGAGGGAGGGAAATACAGAAGCCACCTTTTAT
TTCTCTTCACTGTGTACAAGTTCACCTTGTGTCTTGAACACTGTCTCAAATACCTGCTTT
TTGTTTTGGATAGTACCTTGTCTGTATAAGAAGCTGGCCTTTCCATAGAGAGGCCCTGGA
GTCTAAAATTATGAGAACAATTAATTTATTTGTGTCTTCTATTATGATCTCGTTTTGACA
ATAAAAATCCTTACTACTTTCTC

Gene 359. >ENST00000330147 cDNA sequence

ATGACTCTTAACGAGCATGCTGCCTTCAAGCATCTGTTTAAACAAAGCACATCTTGACCG
CCCTTAATCCTTTTAAACCCTGAGTGGACACAGCACATGTTTCAGAGAGCACAGGGTTGGG
GGTAAGGTCACAGATCAACAGGATCCCAAGGCAGAGGAATTTTCTTAGTGCAGAACAAA
ATGAAAACCTCTCCCATGTCTACTTCTTTCTACACAGACACGGCAACCATCCGATTTCTCA
ATCTTTTCCCCACCTTTCCCGCCTTTCTATTCCACAAAGCCGCCATTGTCTCCTGGCCC
GTTCTCAATGAGCTGTTGGGCACACCTCCAGACGGGGTGGTGGTGGGCAGAGGGGCTC
CTCACTTCCCAGTAG

Gene 360. >ENST00000303137 cDNA sequence

ATGGCACCAGCATCTGCTTCTGGTGAGGACCTCAGGAAGCTTCCAACCATGGCAGAGGTG
AATGGGGAGCAGGACTTCATTGACTTAACTAGAGAGACCAGACCAAGGACAAAAGATCGC
AGTGGACTGTATGTGATTGACCTGACAAGAGCTGAGGGAGAAAATAGACCTATTGCCACT
CTTGACTTAACTTTAGAACCTGTCACTCCTTCCAGAAAGGAGCCAACCACTCTCAGACA
TGTGCCAGCCTCTCTGGCAAAGCGGTGATGGAAGGGCACGTGGACAGAAGCTCTCAGCCT
ACAGCACGGAGAATCATTACAGTGATCCTGTAGATTTGGACCTAGTGAAGAAAACACC
TTTGTAGGTCCCCACCCGCTACATCCATCAGTGGAGGCTCTGTTTATCCAACAGAGCCT
AATTGTAGCTCAGCCACATTCACAGGTAACCTCAGCTTCTTGGCAAGTCTACAGCTGTCT
TCAGATGTTAGCTCCCTCTCCCCAACAAGCAATAATAGTAGGAGCAGCAGCAGCAGCAGC
AATCAAAAAGCACCTTTGCCATGCCCACAGCAAGATGTATCTCGCCCCACACAGGCCTTG
CCGTGCCCCCTGCGACCTTTGCCATGCCCCAGAGAGCCTCACCATGTCCACCACGAGCC
TCCTCATGCCCCACGAGCCTTGTCTATGCCCATCAAAACCATGCAGTGCCAACTACCA
GCTCTAACTCACCCACCTCAAGAAGTGCCATGCCCTCGGCAGAATATCCCAGGCCACCT
CAAGACTCTCTGGGCCTACCTCAAGATGTGCCAGGGCTGCCTCAAAGCATATTACATCCA
CAAGATGTGGCATACCTGCAAGACATGCCACGGTCACCAGGAGATGTGCCACAGTCACCA
AGTGATGTTTTACCGTCACCAGATGCACCACAGTCACCAGGGGGCATGCCA CACTTACCG
GGAGATGTGTTACATTCACTGGAGACATGCCACATCATCAGGGGACGTGACACACTCA
CCTAGAGACATCCCTCACTTACCAGGAGACAGGCCTGACTTTACCCAGAATGATGTACAG
AACCGTGACATGCCTATGGATATCTCAGCTCTGTCTCTCAAGCTGCTCTCCAGCCCA
CAGTCTGAAACTCCCTTAGAGAAAGTTCTTGGCTCTCTGTCTATGGAAACCCAGCCAGA
AAAGAAATATCACTGTGAGAGCCTGCCAAACCTGGGTCTGCCACGTACAATCAGAACCA
CCACAAGGTGGGTTGTACAACAGACCATGCCTGCATAGACTGAAGTACTTCTTACGTCTCT
CCGGTTCATCACCTCTTCTTTTCTAGACGCTAATACCGGATAAAGACACAAGAGAGAACAAAG
GGTCAAAAATTAGAACCCATCCCTCATCGAAGACTAAGAATGGTAACAAATACCATTGAA
GAGAATTTTCTCTGGGGACTGTGCAGTTTTTGTGACTTTGTGTCACCCAGCATTAC
CCACCAAGAGAAATCGTGGCTCACATCATCCAGAAAATCTTGCTCAGTGGCTCTGAGACT
GTGGATGTCTTAAAGGAGGCCTACATGCTTCTCATGAAAATTCAACAGCTACATCCAGCC
AATGCCAAGACAGTGGAGTGGGACTGGAACTGCTCACCTATGTCTATGGAGGAAGAGGGA
CAAACCTCTGCCTGGGCGAGTCCTTTTCTGCGTTATGTCTGTTAGACCTAGAAGATGAC
TTTCAGCAGACCCTGAGGAGGCAACGGCAGCACCTGCAGCAATCATTGCAAACATGGTG
CTTTCTGTGACAAGCAGCCCCACAATGTGAGGGATGTTATCAAGTGGCTGGTCAAAGCA
GTAACCTGAAGATGGATTGACTCAGCCCCCAAATGGAAATCAAACGTCTTCAGGAACAGGA
ATCTTGAAAGCCAGCAGTAGCCACCCTTCTTCCAGCCCAACCTGACAAAGAACAACAAT
CAGCTGATTGTGTGCCAGCTTCAGAGGATGCTCTCCATAGCCGTAGAGGTGGACAGGACC
CCCACCTGCAGCTCCAATAAAATTGCCGAGATGATGTTTGGGTTTGTGCTGGACATTCTT
GAGAGGAGCCAGAGAGAAATGTTCTTTACTACCATGGAAAGCCACCTTCTGCGCTGCAAA

FIGURE 1 (CONT'D)

GTGTTAGAAATCATATTCTCCACAGCTGTGAGACACCCACCCGCTGCCTCTGTCTCTG
 GCCCAGGCCCTCTACTTTCTGAATAATTCTACGTCACTGCTCAAGTGTGAGTCAGATAAA
 AGCCAGTGGCAGACTTGGGACGAATTGGTTGAGCATCTGCAGTTTCTGCTGTCCAGTTAT
 CAACATGTTTTAAGAGAACACTTAAGGAGTTCGCTGATCGACCGAAAGGACTTAATAATC
 AAAAGGATTAAGCCCAAACCCAGCAAGGAGATGACATCACAGTGGTAGACGTAGAGAAG
 CAGATTGAGGCCTTCCGCAGCCGCTGATCCAGATGCTGGGGGAGCCTCTTGTCCCCAA
 CTCCAAGACAAAGTGCACCTTGTGAAGCTCCTGCTCTTCTATGCTGCGGACTTGAACCT
 GATGCAGAGCCCTTTCAAAGGGCTGGAGCGGCTCCTGAGGGCTGCCAAGCACTGAATG
 CCAAGAATACCTCCTGAACTCTCTCTCAACTGCTCAGAAGCTCTAAAAGCATGAAAAGT
 GGTAAAATCTTACAGGACCAAACCTGCATTATTTAATCAGTAGGTTGTAATTTCTAACT
 CTAGTAAATATCTTTTTTTAAATAATCCTATCCTAGCCTGTTCTCAAATATGGCTTAAAT
 ATACAAGGTATATATATTTTTTAATAAATTATTTATCTATACTTTTTTGAAACAGGTTAA
 TACTCTGTGCATCACATGTTTAACATTTTCATTCAAGATGTGGAAAAAATCCCTCTGCTG
 AACCTAGTCTATACACCAATATTATGTCATTCAAGGTACCGACAACCTGTTTCAGGAGAG
 AGACGTTTCATTTTTCCCTAATGAAATGCAAGCATTCTGTTAGACCTATTATATTGCCTGT
 TAATTTGACTGTAATGAATAGGGGGTAGAAAACAAAGGATCAAGTGTGTTATAAAACATT
 TGATGTTAAAAGGAGACAATAAAAAGGCAATGGTTTTTC

Gene 361. >ENST00000332772 cDNA sequence

ATGCCTAGATCCTTTGAACAAGTAATAATACTTAAAAAATGGTTTCTGAAACCTTATAAG
 GGACAAACTCTGCCTGGGCGAGTCCTTTTCTGCGTTATGTCGTTTCAGACCTAGAAGAT
 GACTTTTCAGCAGACCCTGAGGAGGCAACGGCAGCACCTGCAGCAATCCATTGCAACATG
 GTGCTTTTCTGTGACAAGCAGCCCCACAATGTGAGGGATGTTATCAAGTGGCTGGTCAA
 GCAGTAACTGAAGATGGATTGACTCAGCCCCCAAATGGAAATCAAACGTCTTCAGGAACA
 GGAATCTTGAAAGCCAGCAGTAGCCACCTTCTTCCCAGCCCAACCTGACAAAGAACACC
 AATCAGCTGATTGTGTGCCAGCTTCAGAGGATGCTCTCCATAGCCGTAGAGGTGGACAGG
 ACCCCCCACCTGCAGCTCCAATAAAATTGCCGAGATGATGTTTGGGTTTGTGCTGGACATT
 CCTGAGAGGAGCCAGAGAGAAATGTTCTTTACTACCATGGAAAGCCACCTTCTGCGCTGC
 AAAGTGTTAGAAATCATATTCTCCACAGCTGTGAGACACCCACCCGCTGCCTCTGTCT
 CTGGCCAGGCCCTCTACTTTCTGAATAATTCTACGTCACTGCTCAAGTGTGAGTCAGAT
 AAAAGCCAGTGGCAGACTTGGGACGAATTGGTTGAGCATCTGCAGTTTCTGCTGTCCAGT
 TATCAACATGTTTTAAGAGAACACTTAAGGAGTTCGCTGATCGACCGAAAGGACTTAATA
 ATCAAAGGATTAAGCCCAAACCCAGCAAGGAGATGACATCACAGTGGTAGACGTAGAG
 AAGCAGATTGAGGCCTTCCGCAGCCGCTGATCCAGATGCTGGGGGAGCCTCTTGTCCCC
 CAACTCCAAGACAAAGTGCACCTTGTGAAGCTCCTGCTCTTCTATGCTGCGGACTTGAAC
 CCTGATGCAGAGCCCTTTCAAAGGGCTGGAGCGGCTCCTGA

Gene 362. >ENST00000328082 cDNA sequence

ATGTCCAGGGGTAAAGAGAATGAGACAGGAGTTGGCGAGTTCTCTTGCTCGGCATCACC
 AGTGACTCAGGGAAGCAGCAGGCCCTCTTCTGGCTCTTCTGTGTATGCACTTAGTCACT
 GAGGCTGGAAACACACCCATCATCCTGGGCATCGGCTCCAACCTTCGCCTGCACACCCCC
 ATGTACTTCTTACCCATCTCTCCTTTGTCAACATCTGCTTCATCACCAACCTGATCCCC
 AAGCTCCTGGTCAACCATTTGCCTGACTCAGATGTACTTCTCATCTCCTTTGCCAACGTG
 GACACCTTTCTGCTGGCCATCATGGCACTGGACCACTATGTGGCCATCTGCAGCGCCCTG
 CAGTACTGCTCCATCATACCCCCGGCTCTGTGAGGGGCTGGCCCTCATCTCCCTGGTC
 CACACGGTCATCATGAGCAGACTGGCCTTCTGCTCCTCCGCCCAGATTTTCACTTCTAC
 CGTGACGCCTACCTGCTCATGAAGATTGCCTGCTCACATACAGACAATCAGCATGTGTTT
 CTGGGGGCTGTGGTCTGTTCTGGCTCCCTGTGCACTCATCTTGGTCTCCTACATCCGC
 ATTGCTGCAGCCATCCTCCGATTCCATCTCCTACAAGAAGGCGCAAGGCATGTTCCATA
 TGTAGCTCCCACCTGTCTCTGGTCACCTGTTCTATGGAAGTGTCTGGGGATCTGCATA
 GACCCCCAGACTCCTTCAGCCCAGGACACCATAGCAACCATCATGTACACTGTGGTGACC
 TCTATGCTAAACCCCTTCATCTACAGTCTGATGAACAAGGAGGTCCAGGAGGCCGTGAGA
 AGGCTCTTCAGTAGGGGCTCA

Gene 363. >ENST00000331417 cDNA sequence

AATGAGACAGGAGTTGGCGAGTTCTCTTGCTCGGCATCACCAGTGAAGTCAAGGAGCAG
 CAGGCCCTCTTCTGGCTCTTCTGTGTATGCACTTAGTCACTGAGGCTGGAAACACACCC

FIGURE 1 (CONT'D)

ATCATCCTGGGCATCGGCTCCAACCTTCGCCTGCACACCCCATGTACTTCTTCACCCAT
CTCTCCTTTGTCAACATCTGCTTCATCACCAACCTGATCCCAAGCTCCTGGTCAACCAT
TGCCTGACTCAGATGTACTTCCTCATCTCCTTTGCCAAGCTGGACACCTTTCTGCTGGCC
ATCATGGCACTGGACCACTATGTGGCCATCTGCAGCGCCCTGCAGTACTGCTCCATCATC
ACCCCCCTGTCAAGGGCTGGCCGTGCTAGCGTGAGCAGGCTCAGCCTCATCTCCCTGGTC
CACACGGTCATCATGAGCAGACTGGCCTTCTGCTCCTCCGCCCAGATTTCACTTTCTAC
CGTGACGCCTACCTGCTCATGAAGATTGCCTGCTCACATACAGACAATCAGCATGTGTTC
CTGGGGGCTGTGGTCCTGTTCTGGCTCCCTGTGCACTCATCTTGGTCTCCTACATCCGC
ATTGCTGCAGCCATCCTCCGATTCCATCTCCTACAAGAAGGCGCAAGGCATGTTCCATA
TGTAGCTCCACCTGTCTCTGGTACCCTGTTCTATGGAAGTGTCTGGGGCATATGACC
CCCAGACTCCTTTAGCCAGGACACCATAGCAACCATCATGTACACTGTGGTGACCTCT
ATGCTAAACCCCTTCATCTACAGTCTGATGAACAAGGAGGTCCAGGAGGCCGTGAGAAGG
CTCTTCAGTAGGGGCTCA

Gene 364. >ENST00000303108 cDNA sequence

GATTCTTAAAACTTACAATCAGATTACGATGAGGACCTGGTGCAGGAAGCTTCATCTGA
AGATGTCTGGGCGTT CATATGGTGGACAAAGACACAGAGAGAGACATTGAGATGAAACG
GCAACTACGGCGACTACGGGAGCTCCACCTATACAGCACATGGAAGAAGTACCAAGAGGC
GATGGCACCCAACGTGCTGACAATTACTCTGTGTTTCTAGAGCGTGACGAAGGCTCCTT
GGGCAAGCCATTGTGTCCACCCGAGATACTCTCGGAGACGTTGCCAGGCTCTGTGAAGAA
AAGGGTATGCTTTCCATCAGAAGATCATCTAGAGGAGTTTATAGCAGAACATCTCCCTGA
AGCATCCAATCAGAGTCTCCTCACTGTTGCCCATGCAGACGCAGGCACCCAAACCAACGG
TGACCTGGAAGACCTGGAGGAGCATGGGCCAGGGCAGACAGTCTCTGAGGAAGCCACAGA
AGTTTACACGATGGAGGGGGACCCAGACACACTGGCCGAATTTCTGATCAGGGATGTACT
TCAGGAGCTGTCCAGTTACAACGGTGAGGAGGAGGACCCAGAGGAGGTGAAGACATCCTT
GGGAGTTCCACAACGTGGTGACCTGGAAGACCTGGAGGAGCATGTGCCAGGGCAGACAGT
CTCTGAGGAAGCCACAGGGGTTACATGATGCAGGTGGACCCAGCCACGCTGGCAAAGAG
TGACCTGGAAGACCTGGAGGAGCATGTGCCAGAGCAGACAGTCTCTGAGGAAGCCACAGG
GGTTTACATGATGCAGGTGGACCCAGCCACACTGGCAAAGCAATTGGAAGACTCCACCAT
TACAGGCAGCCACCAGCAGATGTGAGCAAGTCTTCTCTGCACCTGCAGAAGAAGCAAC
AGAAAAGACCAAAGTGGAAGAGGAAGTGAAAACAGAAAAGCCCAAGAAGAAAACAGGAA
GCCCAGCAAGAAAAGCCGGTGGAATGTCTGAAATGTTGGGACATTTTTAATATATTTTA
GAGACCTCTGAAGGATTCTCGACCACCAGGAAGGGCCCCGACGTGGGGATGTCAACATG
GCTCAGACTTGATGTGGATCGTGATCATTTTGGGAAATGTGTTACTCCAAAACTTTTAT
AATCTTTGCTTAATTTGTTTTTAAATACTTTCTGGCTGGGCGTGGTGGCTTATGCCTGT
AATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACCTGAGGTGAGGAGTTCAAGACC
AGCCTGGCCAAACAAGGTGAAACCCGCTCTCTACTAAAAATACAAAAATTAGCTAGGCGTG
GTGGCGCACTCTGTAGTCCAGCTATTTGGGAGGCTGAGGCAGGAGAATCACTTGAAC
CAGGAGGCGGAGGTTGCGGTGAGCCGAGATCATGCCACTGCACCCAGCACCTGGCTACA
GAGTGAGACTTTGTCTCAAAAAAAAAAAAAAAAAAGAACAAAAAATTCTGACTTTAACCTC
TGTTTTTTCAGAGGGCACAAATTGTTCTTGTATTGTTTCCATTTTACATTTTTTTCTTGAA
GTTATTTTTCCAATTGTTTTTCACTTTCTGAAAGTTTTGTTTACTCGGTTTTAAGTTTTTG
TAATTTTTGATAGACTTCTTTTGTGCTTTCATTTTCTTAATGACTTTTACCTCATTTTTTAA
AACAAATCATAGTATGGGATGATATTGATGATGAAATGTCTTACGATGATCATTTAGAG
GTTTTATTTTGAACAACCTGGCAATTCAGGAATGATGGAATAAAGCATACGAAGTAGAAGG
ACTGGAACCTCCAGAAAAAGTACTTTAAGTTACCTACAGGTGATCCTAGTCAGGGTATGA
ATTGATAAGAAATGCCTGCACCTTCCCTCCTTCTATCTTTCCCTTGCCTACAGAAAATT
AAAAGGCAAAACAATGGACATCTACATATTCTTCATTGAGATCAACCAGTGGCTAGCATT
TGCCACCTTTTGCAGTTTCTTTCTTTTCCATAAGTACTTTCTTCTCTGAATCATTTGAA
AGGCAAATGAAAACAGTAGCCTAAAGTGTGAGTTTCAACCCGAAAATAACAGCTCTGATT
TCTCATGGCTCACACTCGTCTGAAATGACTCGGGTAGAGGCTGAGGAAGGCTGTGTGTT
TGTCTACCTGGGACTAGCACCTACTGAAAGAAGTTCTCAAGTTCTGATTGAGTTCTAAAA
TTCTTTTGAAGATTGGAATCTTTCATATGGGCACCATGGGCCGGCACTGCCACGTTTTCC
AAGGAACCTGCCAGAGCTCCTGCGGAAGCTGCTCCTCGGGCGATGGAGTCCCTTTGCTGC
TAGGCCCTTCTTCAGTCACCAAGGATGCCTGCCATTATGAACAGGAAGGAGAGGACGG

FIGURE 1 (CONT'D)

GCTTTGAATAAAAAACAGGGATCCAGGAAATATTTGTGAGGCCATTTGGACTTCAGTGTG
AAATGGTGTAAAGATGAAGTCATTTATTCAAGAAGTAAACCTCTGCCACCTGGACTGT
GCTCAGACATTTTCATTGATTTTGTGTTAATAAACATTTTCTGGCTTTGGGAGGTGTCTCTC
TTGGTAGAGCACAGTGTCAAAGATGGACAAGATGGACACATAGTCCATTATTTGGTATTG
TTTGTGTATGGGAGCGGACCACAAATTAATGTTTGGAGAACATTTTGTCAACACACT
GTTGAGGCTCAGTTGTACAGAACTGGAAAAGTCTTTAGCTTGGCACATGTCCTGATTCA
GCCTTTGTTTAAACATACATTCCAATCCGGATTCTATCTTCACTGGCTACAAAGACCACCT
GATACGTGCACCACGACACAGGAGCTGCTGGAGAGGGGGTAGTGTATCACCTCAAACCC
ACAGCCATATTTTTCAAAGCCAGCTTAGAGAGAGGTGTACTGATAGCTGCATAGAGAAC
ATGCAGTCCATCCATTCTTCCCAGTGATGTACATTTCTCAATCAGTAACCACGTGGTATA
CCAGCCTTGAGTGTACATCTCCCAACCATAACCAATGGATCACCTAACTGGAGGTGGGG
GGGGCCCTCAGAAATGAGATTTCTGATTTTACTGTAAAATTGCCTTATTTTTTCTTTTGA
GGTGGAGTCTCACTCTGTTGCCTGGGCTGGAGTGCAATGGTGTGATCACTGCTCACTGCA
ACCTCCGCCTCCTGGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCCAAGTAGCTGCAATTA
CAGGCGCATGCCACCACTCCAGCAAATTTTTATATTTTAGTGAGACAGGGTTTTACC
ATGTTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAGGTGATCTGCCACCTTGGCCTCCC
AAAGTTCTGGGATTAAAGGTACGAGCCACCGCAACTGGCTGAGAATCTTTTTATTTGCTG
ATTTGTCTCTTGTGTATTTTTCTTTGTTGAGATGTCTCTTCAATCTTTTTCTCACTTTTA
AATTGTTTTTTTTAATTGTTAAGAATTTTCTGTCTAGTTTAGATATAAGCCCTTTATCAGA
CATGTGTTTTTGCAAATATTTTCTCCTAGTCTGTGGCTTGTATTCTGTCTTTAACAGTCA
TTTTATTTTTTACTTTTTGAAACTAAAGAAGAAGAATGGTCAGCTTTCCGTTATTCTTGTA
CAGTAATGGCAGAACCAAGTCTGCTAATGCTACATTGAGCAAAGAAAGTCACTGGTCAA
GTCCAACATTAATGAAATGGGGTAGTACATGCAGGCGGCGTTGGGGTTGGGGAGGGAACA
AATGCTTCTTGAGAGTAATATAATCTGCCATACCATCCAGGAACCTACAATGGCTATCTA
TTACCTTATTCTCTGGTTTGTGTTAATGTTCAAATCTTTCCTAAAGATCCTTCAACTTTTC
TGGAAGAATCTAATCTGATAACACCATCAAAAACACATTACTTTTGGCATAATTTAA
ATTGTAAGACATCATTACATTTTATCAATGTTACATATATAAGAACTCACCCACCATATT
CCTCCTTGAGGAATTACAGCATGTAATTTCTATAACCATTTTTATAATCGTCTAACAATTT
TATAATGGATTGGCTGCTATCAATTTTTTAAAAGTCATGGCTTCTCCAGTCATTTCTTGC
TTATCAAATTTATTTTATGAGATGGGTCTATCCTTGTATATTTGAAAATGAGGTTTGCTT
CCTTCTACTTAAAAACAACCTTGAACATACCTGTTTGGATCACATGGTCTTGTCTTGATA
ACTTGGAAGAGGTTGCTTCAATATTCTTATTGTTGTGGTGGTTATTATTAACATTGT
TTCATATTCCGTTTAAAAAATTAATAATTTTACAC

Gene 365. >ENST00000324610 cDNA sequence

GTTGAGATGAAACGGCAACTACGGCGACTACGGGAGCTCCACCTATACAGCACATGGAAG
AAGTACCAAGAGGCGATGAAGACATCCTTGGGAGTTCCACAATGTGAGCGTGACGAAGGC
TCCTTGGGCAAGCCATTGTGTCCACCCGAGATACTCTCGGAGACGTTGCCAGGCTCTGTG
AAGAAAAGGGTATGCTTTCCATCAGAAGATCATCTAGAGGAGTTTATAGCAGAACATCTC
CCTGAAGCATCCAATCAGAGTCTCCTCACTGTTGCCCATCGACTCTGTTTCTTAGGTGAC
CTGGAAGACCTGGAGGAGCATGGGCCAGGGCAGACAGTCTCTGAGGAAGCCACAGAAGTT
CACACGATGGAGGGGGACCCAGACACACTGGCCGAATTTCTGATCAGGGATGTACTT CAG
GAGCTGTCCAGTTACAACGGTGAGGAGGAGGACCCAGAGGAGGTGAAGACATCCTTGGGA
GTTCCACAACGTGGTGACCTGGAAGACCTGGAGGAGCATGTGCCAGGGCAGACAGTCTCT
GAGGAAGCCACAGGGGTTACATGATGCAGGTGGACCCAGCCACGCTGGCAAAGAGTGAC
CTGGAAGACCTGGAGGAGCATGTGCCAGAGCAGACAGTCTCTGAGGAAGCCACAGGGGTT
CACATGATGCAGGTGGACCCAGCCACACTGGCAAAGCGTACGTATTCTGGGATCATCTCT
TTGTTTAGGTGTGAAATCTTAGTGTTGTAA

Gene 366. >ENST00000319628 cDNA sequence

ATGGGCGACTGGAAGGTCTACATCAGTGAGTGTGCGGGACCAGCGCATCGACGACGTG
GCCATCGTGGGCCATGCGGACAACAGCTGCGTGTGGGCTTCGCGGCCCGGGGGCCTGCTG
GCGGCCATCTCGCCGAGGAGGTGGGCGTGCTCACGGGGCCGGACAGGCACACCTTCTG
CAGGCGGGCCTGAGCGTGGGGGGCCGCCGCTGCTGCGTCATCCGCGACCACCTGCTGGCC
GAGGGTGACGGCGTGCTGGACGCACGCACCAAGGGGCTGGACGCGCGCGCCGTGTGCGTG
GGCCGTGCGCCGCGCGCGCTCCTGGTGCTAATGGGCCGACGCGGCGTACATGGGGGCATC

FIGURE 1 (CONT'D)

CTCAACAAGACGGTGCACGAACTCATACGCGGGCTGCGCATGCAG

Gene 367. >ENST00000324417 cDNA sequence

CTTCATTGAGCTGCTGAGCAGAAGCTGAAACACAGAATTCTAAGCGTTGCTGAGACCCAC
TGACCTGCAGACCTCATAGTGGGTGCCAGGATGTTGTCTACGGAGAGAGGCTGGGGTC
CCCTGCTGTCTCCCCACTCCAGTCCGTGGGGGGCATGTGATGCGAGGGACGGCCTTTGC
CTACGTGCCAGCCCTCAGGTCTACACAGGATCCCGGGGACCTCTGCCTATGCCTTTCC
CAGCCTGGGCCCTGTGGCCCTTGCTGAGCACACCTGCCCTGTGGGGAGGTCTGGAGCG
CCATGAACCACTGCCTGCCAAGCTGGCCCTGGAGGAGGAGCAGAAGCCAGAGTCCAGGCT
GGTCCCCAAGCTGCGCCAGGCTGGCGCCATGCTGCTCAAGGTGCCACTGATGCTCACCTT
CCTCTACCTCTTCGTCTGCTCCCTGGACATGCTCAGCTCGGCCTTCAGCTGGCTGGAGG
GAAGGTGGCTGGTGACATCTTCAAGGATAACGCCATCCTGTCCAACCCGGTGGCCGGGCT
GGTGGTGGGGATCCTGGTGACCGTGTGGTGAGAGCTCCAGCACCTCCACATCCATCAT
CGTCAGCATGGTCTCCTCTGGCTTGCTGGAGGTGAGCTCTGCCATCCCCATCATCATGGG
CTCCAACATCGGCACCTCTGTACCAACACCATCGTGGCCCTGATGCAGGCGGGGGACAG
GACTGACTTCCGGCGGGCCCTTCGCGGGGGCCACGGTGCATGACTGCTTTAACTGGCTGTC
AGTGCTGGTCTGCTGCCCTGGAGGCTGCCACTGGCTACCTGCACCACATCACTCGACT
TGTGGTGGCCTCCTTCAACATCCATGGTGGCGTGATGCTCCTGACCTGCTCAAGATCAT
CACAGAGCCCTTCAAGAAGCTCATCATCCAGCTGGACGAGTCTGTGATAACCAGCATTGC
CACTGGTGATGAGTCCCTGAGGAACACAGTCTCATCCAGATCTGGTGCCACCCAGACTC
CTTACAGGCTCCCACTCCATGTCCAGAGCAGAGGCCAACTCCAGCCAGACCTTGGAAA
TGCCACCATGGAGAAATGCAACCACATCTTTGTGGACACTGGCCTACCGGACCTGGCTGT
GGGGCTCATCCTGCTGGCAGGATCCCTGGTGTGCTGTGCACCTGCCTCATCCTCCTAGT
CAAGATGCTCAACTCCCTGCTCAAGGGCCAAGTGCCCAAGGTATCCAGAAGGTATCAA
TACGGACTTCCCTGCCCCCTTACCTGGGTACAGGCTACTTTGCCATGGTGGTGGGCGC
CAGCATGACCTTCGTGGTCCAGAGCAGTTCTGTGTTACCTCGGCCATCACCCCACTCAT
CGGTCTTGGTGTGATCAGCATTGAGAGGGCCTACCCGCTCACTGGGTTCCAACATCGG
CACCACCACACGGCCATCCTGGCTGCCCTGGCCAGCCCCAGGGAGAAGCTGTCCAGCGC
TTTCCAGATTGCCCTCTGTCACTTCTTCTTCAACATCTCGGGTATCCTTCTGTGGTACCC
GGTGGCCTGCACACGCCTGCCCATCCGCATGGCCAAGGCGTGGGGAAACGCACGGCCAA
GTACCGCTGGTTTGCCGTCTCTATCTCCTTGTCTGCTTCTGCTGCTGCCCTCACTGGT
GTTTGGCATCTCCATGGCAGGCTGGCAGGTATGGTAGGTGTGGGTACGCCCTTCGGGGC
CCTGCTGGCCTTCGTGGTGTCTCATCAATGTCTGTCAGAGTCCGAGTCCCGGGCACCTGCC
CAAGTGGTTACAGACATGGGACTTCTTGCCTCGCTGGATGCACTCCCTGAAGCCCCTGGA
CCACCTCATACCCGCGCCACCTATGCTGTGCCAGGCCTGAGCCCCGCTCACCCCCGCT
GCCCCCAGGGTCTTCTGGAGGAGCTACCCCTGCCACACCCTCCCCCGTCTTGCACT
GCCTGCTCACCACAATGCCACCCGCTCTAGGCTGTGGGCCCAGACTACAGCCTGGAATG
GGGAAGGCCTGGGGTGGAAAGGCAGGGGAGGGAGGGTGTGTGTAGGTATGTGCATGTGCC
TGTGCCACCCTGGGTGCCAGTCTCTCCTTCTGTAGCTCCGCAAAGCTCTGGGCTTGTGTG
AGAGTGTGGTGTGTGTGCATGTGTGGGGGTGAGTCTGCATGTGCACCTGTCTGTGTAG
AAGCTTGTATTTGTGTACAGGTGTGCCAGCCATGCAGGTGTACACAGACACACCTGTGG
GAGGCTGTGTGCAGGCTGCAGGATATCTGGGTATGATTTAGGTCTCTGCACGTGTACA
CATGACTAGGATAGGCAGGAGTAAGGGTGGGTCTGGGTATATGACTGTGCAGCTGTTTGT
GCATAGATGTTGGTGCCTGCGTTACTGAATTTGCACACCTCCTTGCCACCTTCTTCTCTC
CAAGATACCATCTCCTCATCCTAACCCAGGTCTTCGGCACCACCACAATTAATCCCTTC
CCAACACTTGCCCTGATGGAAAAAAACAAAGGAATTAATACTCTCCTCAGGC

Gene 368. >ENST00000329355 cDNA sequence

ATGACAGGATCAAATTCACACATAACAATATTAACCTTTAAATATAAATGGACTAAATTCT
GCAATTAAGACACAGACTGGCAAGTTGGATAAAGAGTCAAGACCCATCAGTGTGCTGT
ATTACAGAAACCCATCTCACGTGCAGAGACACACATAGGCTCAAAATAAAAGGATGGAGG
AAGATCTACCAAGCAAATGGAAAAAAGGAGGGGTGCAATCCTAGTCTCTGAT
AAAACAGACTTTAAACCAACAAAGATCAAAAGAGACAAAGAAGGCCATTACATAATGGTA
AAGGGATCAATTCAACAAGAGGAGCTAACTATCCTAAATATTTATGCACCCAATACAGGA
GCACCAGATTATAAAGCAAGTCTGAGTGACCTACAAAGAGACTTAGACTCCACACA
TTAATAATGGGAGACTTTAACACCCCACTGTCAATATTAGACAGATCAACGAGACAGAAA

FIGURE 1 (CONT'D)

GTCAACAAGGATACCCAGGAATTGAACTCAGCTCTGCACCAAGCAGACCTAATAGACATC
TACAGAACTCTCCACCCCAAATCAACAGAATATACATTTTTTTTTCAGCACCACACCACACC
TATTTCCAAAATTGACCATAGTTGGAAGTAAAGCTCTCCTCAGCAAATGTAAAAGAA CA
GAAATTATAACAAACTATCTCTCAGACCACAGTGCAATCAAACTAGAACTCAGGATTAAG
AATCTCACTCAAAGCCGCTCAACTACATGGAACTGAACAACCTGCTCCTGAATGACTAC
TGGGTACATAACGAAATGAAGGCAGAAATAAAGATGTTCTTTGAAACCAACGAGAACAAA
GACACCACATACCAGAATCTCTGGGACGCATTCAAAGCAGTGTGTAGAGGGGAAATTTATA
GCACTAAATGCCTACAAGAGAAAGCAGGAAAGATCCAAAATTGACACCCTAACATCACAA
TTAAAAGAACTAGAAAAGCAAGAGCAAAACACATTCAAAGCTAGCAGAAGGCAAGAAATA
ACTAAAATCAGAGCAGAACTGAAGGAAATAGAGACACAAAAAACCTTCAAAAAATCAAT
GAATCCAGGAGCTGGTTTTTTTGAAAGGATCAACAAAATTGATAGACCGCTAGCAAGACTA
ATAAAGAAAAAAGAGAGAA GAATCAAATAGACACAATAAAAAATGATAAAGGGGATATC
ACCAACCGATCCCACAGAAATACAACTACCATCAGAGAATACTACAAACACCTCTACGCA
AATAAACTAGAAAATCTAGAAGAAATGGATACATTCTCGACACATACACTCTCCCAAGA
CTAAACAGGAAGAA GTTGAATCTCTGAATAGACCAATAACAGGCTCTGAAATTGTGGCA
ATAATCAATAGTTTTACCAACCAAAAAGAGTCCAGGACCAGATGGATTACAGCCGAATTC
TACCAGAGGTACAAGGAGGAACTGGTACCATTCTCTTCTGAACTATTCCAATCAATAGAA
AAAGAGGGAATCCTCCCTAACTCATTCTTATGAGGCCAGCATCATTCTGATACCAAGCCG
GGCAGAGACACAACCAAAAAAGAGAA TTTTAGACCAATATCCTTGATGAACATTGATGCA
AAAATCCTCAATAAAATACTGGCAACCGAATCCAGCAGCACATCAAAAAGCTTATCCAC
CATGATCAAGTGGGCTTCATCCCTGGGATGCAAGGCTGGTTCAATATACGCAAATCAATA
AATGTAATCCAGCATATAAACAGAGCCAAAGACAAAAACCATGATTATCTCAATAGAT
GCAGAAAAAGCCTTTTGACAAAATTCAACAACCTTCATGCTAAAACTCTCAATAAATTA
GGTATTGATGGGACGTATTTCAAAATAATAAGAGCTATCTATGACAAACCCACAGCCAAT
ATCATACTGAATGGGCAAAAACCTGGAAGCATTCCCTTTGAAAACTGGCACAAGACAGGGA
TGCCCTCTCTCACCGCTCCTATTCAACATAGTGTGGAAAGTTCTGGCCAGGGCAATCAGG
CAGGAGAAGGAAATAAAGGGTATTCAATTAGGAAAAGAGGAAGTCAAATTGTCCCTGTTT
GCAGACGACATGATTGTTTATCTAGAAAACCCCATCGTCTCAGCCCAAAATCTCCTTAAG
CTGATAAGCAACTTCAGCAAAGTCTCAGGATACAAAATCAATGTACAAAAACCAAGCA
TTCTTATACACCAACAACAGACAAAACAGAGAGCCAAATCATGGGTGAACTCCCATTCACA
ATTGCTTCAAAGAGAATAAAATACCTAGGAATCCAACCTTACAAGGGATGTGAAGGACCTC
TTCAAGAACTACAAACCACTGCTCAAGGAAATAAAAGAGGACACAAACAAATGGAAGAAC
ATTCATGCTCATGGGTAGGAAGAATCAATATCGTGAAAATGGCCATACTGCCCAAGGTA
ATTTACAGATTCAATGCCATCCCCATCAAGCTACCAATGACTTTCTTCACAGAATTGGAA
AAAACTACTTTAAAGTTTCATATGGAACCAAAAAAGAGCCCGCATTGCCAAGTCAATCCTA
AGCCAAAAGAA CAAAGCTGGAGGCATCACACTACCTGACTTCAAATATACTACAAGGCT
ACAGTAACCAAAACAGCATGGTACTGGTACCAAAACAGAGATATAGATCAATGGAAACAGA
ACAGAGCCCTCAGAAATAATGCCGCATATCTACAACTATCTGATCTTTGACAAACCTGAG
AAAAACAAGCAATGGGGAAAGGATTCCCTATTTAATAAATGGTGTGGGAAAACTGGCTA
GCCATATGTAGAAAGCTGAAACTGGATCCCTTCTTACACCTTATACAAAAATCAATTCA
AGATGGATTAAAGATTTAAACGTTAAACCTAAACCATAAAAACCTAGAAAGAAAACCTA
GGCATTACCATTACAGGACATAGGCGTGGGCAAGGACTTCATGTCCAAAAACCAAAAAGCA
ATGGCAACAAAAGACAAAATTGACAAATGGGATCTAATTAAACTAAAGAGCTTCTGCACA
GCAAAAGAACTACCATCAGAGTGAA CAGGCAACCTACAACATGGGAGAAAATTTTCGCA
ACCTACTCATCTGACAAAGGGCTAATATCCAGAATCTACAATGAACTCAAACAAATTTAC
AAGAAAAAAACAAACCAACCCCATCAAAAAGTGGGCGAAGGACATGAA CAGACACTTCTCA
AAAGAAGACATTTATGCAGCCAAAAAACACATGAAGAAATGCTCATCATCACTGGCCATC
AGAGAAATGCAAATCAAAACCACTATGAGATATCATCTCACACCAGTTAGAATGGCAATC
ATTA AAAAGT CAGGAAACAACAGGTGCTGGAGAGGATGCGGAGAAATAGGAACACTTTTA
CACTGTTGGTGGGACTGTAACTAGTTCAACCATTGTGGAAGTCAGTGTGGCGATTCTCTC
AGGGATCTAGAACTAGAAATACCATTTGACCCAGCCATCCCATTA CTGGGTATATACCCA
AATGAGTATAAATCATGCTGCTATAAAGACACATGCACACGTATGTTTATTGCGGCACTA
TTCACAATAGCAAAGACTTGGAACCAACCCAAATGTCCAACAATGATAGACTGGATTAAG
AAAATGTGGCACATATACCCATGGAATACTATGCAGCCATAAAAAATGATGAGTTCATA

FIGURE 1 (CONT'D)

TCCTTTGTAGGGACATGGATGAAATTGGAAACCATCATTCTCAGTAAACTATCACAAGAA
CAAAAAACCAAACACCGCATATTCTCACTCATAGGTGGGAATTGA

Gene 369. >ENST00000230673 cDNA sequence

GGCCGGCGGCGCGGCCCGGCGGGCCAGGCGGCCACAGCCCATTGGAGCTCGAGAACATC
GTAGCGAACACGGTGCTACTCAAGGCCCGGAAGGTGGCGGTGGAAATCGCAAAGGCAAA
AGCAAGAAATGGCGGCAGATGCTCCAGTTCCCTCACATCAGCCAGTGCAGAGAGCTGCGG
CTCAGCCTCGAGCGTGACTATCACAGCCTGTGCGAGCGGCAGCCCATTGGGCGCCTGCTG
TTCCGAGAGTTCTGTGCCACGAGGCCGGAGCTGAGCCGCTGCGTCGCCTTCCTGGATGGG
GTGGCCGAGTATGAAGTGACCCCGGATGACAAGCGGAAGGCATGTGGGCGGCAGCTAACG
CAGAATTTTCTGAGCCACACGGGTCTTGACCTCATCCCTGAGGTCCCCCGGCAGCTGGTG
ACGAACTGCACCCAGCGGCTGGAGCAGGGTCCCTGCAAAGACCTTTTCCAGGAACTCACC
CGGCTGACCCACGAGTACCTGAGCGTGGCCCCCTTTTGCCGACTACCTCGACAGCATCTAC
TTCAACCGTTTCTGTCAGTGGAAGTGGCTGGAAAGGCAGCCAGTGACCAAAAAACACCTTC
AGGCAATACCGAGTCTTGGGCAAAGGTGGCTTTGGGGAGGTGTGCGCCTGCCAGGTGCGG
GCCACAGGTAAGATGTATGCCTGCAAGAAGCTAGAGAAAAAGCGGATCAAGAAGCGGAAA
GGGGAGGCCATGGCGCTGAACGAGAAGCAGATCCTGGAGAAAGTGAAACAGTAGGTTTGTA
GTGAGCTTGGCCTACGCCTATGAGACCAAGGACGCGCTGTGCCTGGTGCTGACACTGATG
AACGGGGGCGACCTCAAGTTCACATCTACCACATGGGCCAGGCTGGCTTCCCCGAAGCG
CGGGCCGTCTTCTACGCCGCGGAGATCTGCTGTGGCCTGGAGGACCTGCACCGGGAGCGC
ATCGTGACAGGGACCTGAAGCCCCGAGAACATCTTGCTGGATGACCACGGCCACATCCGC
ATCTCTGACCTGGGACTAGCTGTGCATGTGCCCCAGGGCCAGACCATCAAAGGGCGTGTG
GGCACCGTGGGTTACATGGCTCCGGAGGTGGTGAAAATGAACGGTACACGTTTCAAGCCT
GACTGGTGGGCGCTCGGCTGCCTCCTGTACGAGATGATCGCAGGCCAGTCGCCCTTCCAG
CAGAGGAAGAAGAAGATCAAGCGGGAGGAGGTGGAGCGGCTGGTGAAGGAGGTCCCGAG
GAGTATTTCCGAGCGCTTTTCCCCCGAGGCCCGCTCACTTTGCTCACAGCTCCTCTGCAAG
GACCCTGCCGAACGCCTGGGGTGTCTGTGGGGGCGAGTGCCCGCAGGTGAAGGAGCACCCC
CTCTTTAAGAAGCTGAACCTTCAAGCGGCTGGGAGCTGGCATGCTGGAGCCGCCCTTCAAG
CCTGACCCCCAGGCCATTTACTGCAAGGATGTTCTGGACATTGAACAGTTCTCTACGGTC
AAGGGCGTGGAGCTGGAGCCTACCGACCAGGACTTCTACCAGAAGTTTGCCACAGGCAGT
GTGCCCATCCCCCTGGCAGAACGAGATGGTGGAGACCGAGTGCTTCCAAGAGCTGAATGTC
TTTGGGCTGGATGGCTCAGTTCCTCCAGACCTGGACTGGAAGGGCCAGCCACCTGCACCT
CCTAAAAAGGGACTGCTGCAGAGACTCTTCAGTCGCCAAGATTGCTGTGGAACTGCAGC
GACAGCGAGGAAGAGCTCCCCACCCGCTCTAGCCCCCAGCCCCAGGCCCCCACCAGCAG
TTGGCGGTAGCAGCTACTCCGAGCGCCGTTTACAGTTTGTGCACAGTGATCTTCCCATTG
TCCACTCAAGTCGTGGCCTGGGGAACACAGACGGAGCTGTCCCCAGTGTCCTCCGTCCCT
CAGCCCCCTGGCCTGGCTGAGTTTGGCAGGGCCTGGGCCATCCCTGGGACAAAGGTGCGTC
CCTTCAGCTCTTCTCCGTGGAGCTCGGGCTTTCTGTATTTATGTATTTGTACGAATGTA
TATAGCGACCAGAGCATTCTTAATTCGCCCGCAGACCTGGCGCCCCCGCCTTGGCTCCT
GGGGGCGAGCCAGCCCTGGCTGGGAGAGCGGGAGCTGGCAGAGGAGCCAAGTCCAAACTCA
AGGCTCCTCTGGCCAGCTTGGATGGCTGAGGGTGGTCAACCCCTGAGCCTTCAGCACT
GTGCTGGCCACCCCGGCCTCTGAGTAAGACTCGTGCCTCCCCCTGCTGCCCTGGGCTCAG
GCTGCTACCCCTCTGGGGCCCCAAGCTGTCCCTTCTCAGTGCTTGTGAGCGCTGGGTCTGG
GGCCTCTGTATGCCCTAGGCCTGTGCCAAAGTGGCCAGAGATTGGGCTGCCTGTGATACC
CATCAGCCCACTGCCCGGCGGCCCGAGATAGGTCTGCCTCTGCCTTCCAGCTCCACAG
CCTGGTCCCTGATACTGGGCTCTGTCTCTGCAGACACCTCTTTCAGAAACGCCCAAGCCCA
GCCCCCTAGGAGGGGGTGGGGCATCCCTGGTCAACCCTCAAACATTCCGACTCCCCTCAT
AACAATAGACACATGTGCCAGCAATAATCCGCCCTTCTGTGTGCGCCTGTGGGGTGC
GTGCGCGCGCGTGTGTACCTGTGTGGGTGAAGGGGATAGGGCGAGGCTGTGCCTGTGCCC
CAGGTCCCAGCCCTGGCCCTTCCCAGACTGTGATGGCCATCCTGGTCCCAGTGTTAGGGT
AGCATGGGATTACAGGGCCCTGTTTTTCCATATTTAAAGCCAATTTTTTATTACTCGTTT
TGTCCAACGTAA

Gene 370. >ENST00000323249 cDNA sequence

GTGCGCGCGCCCCGCGCCTCCAGCCCAGCGCTCGGAGCCGCTTTGCTGCCACTGTCTGC
TCCCCCGGGCCGCGCGCCTCCCCCGCAGGCCCGGGCTCTGTCCGCTGGGCCCCGCGC

FIGURE 1 (CONT'D)

TGCTCGCCCCGAGCCAGGAGAACGAGCTCGAGGAGGATGCCTGGGCCCCGGTGCAAGGTTTC
 CCCCTCTACCCGCGAGCTGTGGAGAGGAGGAAGCGGAAGTAGAGATGCCCATCTGGAGTG
 AGTGCAGGACCAGGTCCCGCGCGGCCCGGGTGAGGCACGCCCGCGCGCCCGCCGGCGCC
 ATGGGAAGGAGCGGGCGCCGCTGCTGTCCCCCGCGCGCGCACGACTTGAGACCTGC
 CACGGGCAGCCCCCGGCCGCGGGTCCCCGAGTGACGCTGGCGGCACCTGAGAGTGTGGCG
 CGGGCCCGGGCCACGCGAGCGGAGCCAGTGTCCAGTGAAGCGTCTGAGGACCCGCGGCC
 CGTGCCCGCCCATGGTGATGTCCAGGGCACCTACACGTTCTCACGTGCTTCGCCGGC
 TTCTGGCTCATCTGGGGTCTCATCGTCCTGCTCTGCTGCTTCTGCAGCTTCTGCGCCGC
 CGCCTCAAACGGCGCCAGGAGGAGCGACTGCGCGAGCAGAACCTGCGCGCCCTAGAGCTG
 GAGCCCCTCGAACTCGAGGGCAGTCTGGCGGGAGCCCCCGGGCTGGCGCCGCGCAG
 CCACCACACACCGTAGCCGCTGGAGGCGCCGGCTCACGCGCACTCGCATCCGCACGTG
 CACGTGCACCCGCTGCTGCACACGGGCCCGCGCAGCCGCACGCGCACGCGCACCCACAC
 CCGCACACACGCGCTCCCGCACCCGCCGCTACGCACCTGTGCGTGCCGCCACGGCCC
 TGGAGCTACCCGCGCAAGCGGAATCGGACATGTCCAAACCACCGTGTTACGAAGAGGCG
 GTGCTGATGGCAGAGCCGCGCGGCCCTATAGCGAGGTGCTCACGGACACGCGCGGCCCTC
 TACCGCAAGATCGTCACGCCCTTCTGAGTCGCGCGACAGCGCGGAGAAGCAGGAGCAG
 CCGCCTCCAGCTACAAGCCGCTCTTCTGACCGGGGCTACACCTCGGCGCTGCACCTG
 CCCAGCGCCCCCTCGGCCCGCGCGGCCCTGCCAGCCCTCTGCCTGCAGGCCGACCGTGGC
 CGCCGGGTCTTCCCAGCTGGACCGACTCAGAGCTCAGCAGCCGCGAGCCCTGGAGCAC
 GGAGCTTGGCGTCTGCCGGTCTCCATCCCCCTTGTTTCGGGAGGACTACAGCCGTATAGAGG
 GCGCCCCGGCGCCCCGGGGCCCCACCGGCGGACTCCTGGCCTGACTGCGGGGCTTTTTAAA
 TGCTTCCCTGGACTGCGGGGAGGGGCGGGGGAGGGAGGGATTCTTATCCCGTTTGTTA
 CATTTTGAGGATAATAAAGGTGTGTGATCTGGTTTGGT

Gene 371. >ENST00000253496 cDNA sequence

CTATTGATCTGGACTCCTGGATAGGCAGCTGGACCAACGGACGGACGCCATGAGGGCTCT
 GCTGCTCCTGGGGTTCTCTGCTGGTGAGCTTGGAGTCAACACTTTTCGATTCCACCTTGGGA
 AGCCCCCAAGGAGCATAAGTACAAAGCTGAAGAGCACACAGTCGTTCTCACTGTACCCGG
 GGAGCCCTGCCACTTCCCCCTTCCAGTACCACCGGCAGCTGTACCACAAATGTACCCACAA
 GGGCCGGCCAGGCCCTCAGCCCTGGTGTGCTACCACCCCAACTTTGATCAGGACCAGCG
 ATGGGGATACTGTTTGGAGCCCAAGAAAGTGAAAGACCACTGCAGCAAACACAGCCCCTG
 CCAGAAAGGAGGGACCTGTGTGAACATGCCAAGCGGCCCCCACTGTCTCTGTCCACAACA
 CCTCACTGGAAACCACTGCCAGAAAGAGAAGTGCTTTGAGCCTCAGCTTCTCCGGTTTTT
 CCACAAGAATGAGATATGGTATAGAACTGAGCAAGCAGCTGTGGCCAGATGCCAGTGCAA
 GGGTCTCTGATGCCCACTGCCAGCGGCTGGCCAGCCAGGCCTGCCGCACCAACCCGTGCCT
 CCATGGGGGTCTGCTGCCTAGAGGTGGAGGGCCACCGCCTGTGCCACTGCCCGGTGGGCTA
 CACCGGACCCTTCTGCGACGTGGACACCAAGGCAAGCTGCTATGATGGCCGCGGGCTCAG
 CTACCGCGGCCTGGCCAGGACCACGCTCTCGGGTGCGCCCTGTGAGCCGTGGGCCTCGGA
 GGCCACCTACCGGAACGTGACTGCCGAGCAAGCGCGGAAGTGGGACTGGGCGGCCACGC
 CTTCTGCCGGAACCCGACAAACGACATCCGCCCGTGGTGTCTCGTGCTGAACCGCGACCG
 GCTGAGCTGGGAGTACTGCGACCTGGCAGAGTGCAGACCCCAACCCAGGCGGCGCCTCC
 GACCCCGGTGTCCCCTAGGCTTCATGTCCCACTCATGCCCGCGCAGCCGGCACCCCGGAA
 GCCTCAGCCACGACCCGGACCCCGCCTCAGTCCAGACCCCGGGAGCCTTGCCGGCGAA
 GCGGGAGCAGCCGCCTTCCCTGACCAGGAACGGCCCACTGAGCTGCGGGCAGCGGCTCCG
 CAAGAGTCTGTCTTCGATGACCCGCGTCTGTGGCGGGCTGGTGGCGCTACGCGGGGCGCA
 CCCCTACATCGCCGCGCTGTACTGGGGCCACAGTTTCTGCGCCGGCAGCCTCATCGCCCC
 CTGCTGGGTGCTGACGGCCGCTCACTGCCTGCAGGACCGGCGGCCCGCACCCGAGGATCT
 GACGGTGGTGCTCGGCCAGGAACGCCGTAAACACAGCTGTGAGCCGTGCCAGACGTTGGC
 CGTGCGCTCCTACCGCTTGACAGAGGCCTTCTCGCCCGTCAGCTACCAGCACGACCTGGC
 TCTGTTGCGCCTTCAGGAGGATGCGGACGGCAGCTGCGCGCTCCTGTGCGCCTTACGTTCA
 GCCGGTGTGCCTGCCAAGCGGCGCCGCGCGACCCTCCGAGACCACGCTCTGCCAGGTGGC
 CGGCTGGGGCCACAGTTTCAGGGGGCGGAGGAATATGCCAGCTTCTTGACAGGAGGCGCA
 GGTACCGTTTCTCTCCCTGGAGCGCTGCTCAGCCCCGGACGTGCACGGATCCTCCATCCT
 CCCGGCATGCTCTGCGCAGGGTTCTCAGGGGCGGCACCGATGCGTGCCAGGGTGATTTC
 CGGAGGCCCCGCTGGTGTGTGAGGACCAAGCTGCAGAGCGCCGGCTCACCTGCAAGGCAT

FIGURE 1 (CONT'D)

CATCAGCTGGGGATCGGGCTGTGGTGACCGCAACAAGCCAGGCGTCTACACCGATGTGGC
CTACTACCTGGCCTGGATCCGGGAGCACACCGTTTCTTGATTGCTCAGGGACTCATCTTT
CCCTCCTTGGTGATTCCGCAGTGAGAGAGTGGCTGGGGCATGGAAGGCAAGATTGTGTCC
CATTCCCCCAGTGCGGCCAGCTCCGCGCCAGGATGGCGCAGGAACTCAATAAAGTGCTTT
GAAAATGCTGAG

Gene 372. >ENST00000274826 cDNA sequence

ATGACTCGGGGAGCCAGACTGCGATCAGACGCGCGTGCCAGCTGAACCAGCTGTCTCTG
GACGGAGGGACGGAAGTGGCCAGAAGGGGAAGTGTGAGGAGTTCCCGTCAGCCTGTCA
TCAGTCTCCCCAGGTCTTGAAGCGGCGGCCCTGCTCCTGGCCGTGACCATGGACCTCTG
GAGACCCCTATCAAGGATGGCATCCTCTACCAGCAGCATGTCAAGTTTGGCAAGAAGTGC
TGGCGGAAGGTGTGGGCTCTGCTGTATGCAGGAGGCCCATCAGGCGTGGCACGGCTGGAG
AGCTGGGAGGTCCGGGATGGTGGCCTGGGAGCAGCGGGTGACAGGTGGCAGGGCCTGGC
CGGCGAGGGGAGCGACGGGTCTCCGCTGGCTGACTGTGTGTCCGTGCTGCCGGCTGAC
GGCGAGAGCTGCCCCGGGACACCGGTGCCTTCTGCTCACCACCACCGAGCGAAGCCAT
CTACTGGCTGCTCAGCACCGCCAGGCCTGGATGGGCCCCATCTGCCAGCTGGCCTTCCCG
GGGACAGGGGAGGCCTCCTCAGGATCCACAGATGCCCAGTCTCCCAAGAGGGGCCTGGTC
CCCATGGAGGAAAACCTCATCTACTCCTCCTGGCAGGAAGTGGGCGAGTTTCCCGTGGTG
GTGCAGAGGACTGAGGCCGCCACCCGCTGCCAGCTGAAGGGGCCGGCCCTGCTGGTGCTG
GGCCAGACGCCATCCAGCTGAGGGAGGCCAAGGGCACCCAGGCCCTCTACAGCTGGCCC
TACCACTTCTGCGCAAGTTCGGCTCCGACAAGGGCGTGTTCTCCTTTGAGGCCGGCCGT
CGCTGCCACTCGGGTGAGGGCCTCTTTGCCTTCAGCACCCCTGTGCCCCCTGACCTGTGC
AGGGCTGTGGCCGGGGCCATCGCCCGCAGCGGGAGCGGCTGCCAGAGCTGACCAGGCCC
CAGCCCTGCCCCCTGCCACGGGCCACCTCTCTGCCCTCCCTGGACACCCCCGGAGAGCTT
CGGGAGATGCCACCAGGACCTGAGCCACCCACGTCCAGGAAAATGCACCTGGCCGAGCCC
GGACCCAGAGCCTGCCGCTACTGCTAGGCCCCGGAGCCCAACGATCTGGCGTCCGGGCTC
TACGCTTCAGTGTGCAAGCGTGCCAGTGGGCCCCCAGGCAATGAGCACCTCTATGAGAAC
CTGTGTGTGCTGGAGGCCAGCCCCACGCTGCACGGTGGGGAACCTGAGCCGCACGAGGGC
CCCGGCAGCCGCAGCCCCACAACAGTCCCATCTACCAACAACGGCCAGGACTTGAGCTGG
CCCGGCCCGGCCAACGACAGTACCCTGGAGGCCAGTACCGGCGGCTGCTGGAGCTGGAT
CAGGTGGAGGGCACAGGCCGCCCTGACCCCTCAGGCAGGTTTCAAGGCCAAGCTGGTGACC
CTGCTGAGTCTGTGAGCGGAGGAAGGGCCCAGCCCCCTTGTGACCGGCCCTGAACGCCCAGC
AGAGTGGTGGCCAGAGGGGAGAGGTGCTCCCCCTGGGACAGGAGGGTGGGCTGGTGGGCA
AACATTGGGCCCATGCAGACACACGCCTGTGTCCACCCTGGCCTGCAGGAACAAGGCAGG
CCGCCTGTGGAGGACCTCAGCCCTGCCCTGCCCTCCTCATGAATAGTGTGCAGACTCACA
GATAATAAAGCTCAGAGCAGCTCCCGGCAGGGGCACTCACGGC

Gene 373. >ENST00000312943 cDNA sequence

ATGGGCCCCATCTGCCAGCTGGCCTTCCCGGGACAGGGGAGGCCTCCTCAGGATCCACA
GATGCCAGTCTCCCAAGAGGGGCCTGGTCCCCATGGAGGAAAACCTCATCTACTCCTCC
TGGCAGGAAGTGGGCGAGTTTCCCGTGGTGGTGAGAGGACTGAGGCCGCCACCCGCTGC
CAGCTGAAGGGGCCGGCCCTGCTGGTGTGGGCCAGACGCCATCCAGCTGAGGGAGGCC
AAGGGCACCCAGGCCCTCTACAGCTGGCCCTACCACTTCTGCGCAAGTTCGGCTCCGAC
AAGATACTTCTGGGAACCCCAGGCGTCAGTCTCCTCATCTGTAAAGGAGAGAGAACCGAT
GACGTATCAGGCATAATCCTTGATGAGAGTTTGTGCGTGCCTACTCAGTGCCAGGCGCT
GGGGGACACAGCCGTGTTAGGACAGCCTTGGTCCTGTTCTCCGGGAGCCGACATTCCAG
GGGGAGAGAAGTTTCTGAAGACTTCCATGCTGCGTTCCCTCCTCTGCTCCTGCTCCTGG
CGCCATCCTAGGAGCCAGCCATGCACGCAAGCGTCATGCCTCCAGGGCTCTGACTGCCCA
GCCCCCTCACCGCAACTCCACCTCAGCTGCACACACCTTGGCACATCCTGAACCTCATTT
TCATGACGGACACACAATTTTGTCTCTCCTGTCCAAGCCTCATCCTCTGGCCGCCACC
TCCTTCCAGCTCACTTCTTTAGTGCGGCCAGTACCGCCCCCTGCCTAGGCATGTGACCT
GCAGGGACCTTTTCTGGCTCTTGGAGGCCTTGCCACCATCCCCCTCTTTGTTCTCCAT
AGTCCCTTCCCCCTGTTCTCTCTCGTTTTCATCTTACTGGTCTGGCAAAGTCCCGGCCCTT
GGGCGAGCCCAGACCTCCTCAGTGCCTGCACACAGCTGCCACAGCCAGAGAAATCCATT
TAAGCAGACTGCCTGCATCCTTCTTAACAGTGCAAGGCAGGCACTCCCTGCCACAAGAGA
CCCTGTTCCCTAGTAGGGCAGCTTTTCTCCTCCCCAGAACCTCCTGTCTATCCCCACCCA

FIGURE 1 (CONT'D)

ATGTCTCCTCACAGGCATATTGGGGAAACAGGTCAGGCTCTCCACCGTATCTGCAAGTG
TACTGGCATCCATCTGTCTTCTTCTTACCCCTACAGTAGAAACAGTGTCTGTCCCAGCT
GTGCTCTGATCCCGGCTCCTTTACCTCAGAGCTTGGAAAATTGAGCTGTCCCCTCTC
TCCTGCGCCCATTCATCTACCAGCAGCTTTTCCAGCCACACGCAAAACATGCTCTGTAAT
TTCACATTTTAAACCTTCCCTTGACCTCACATTCTCTTCGGCCACCTCTGTTTCTCTGT
TCCTCTTACAGCAAAAACCTGTTCAAAAGAGTTGTTGATTACTTTTCACTTTCTC
ACCCCATTTCTCTCTCAATTAACCTCTCTTCATCCCATGATGCCATTATGTGGCTTTT
ATTAGAGTCACCAACCTTATTCTCAAAACAAAAGCAACAAGGACTTTGACTTCTCAGCA
GCACTCAGCTCTGGTTCTTGAAACACCCCGTTACTTGCTATTCTCTCTACCTCATAACA
ATCTCTTCCCAGCCTCTACTGCTGCCTTCTCTGAGTTCTTCCAGGGTCTAGGCTCAG
ATGTAGTGTAGCTCAACCCTGCTACACAAAGAATCTCTGAAAGCCTGTAAAAATGTCCA
TGCATGTTCTGTGAGTGATCTACCAAGAAAATAAAAAATTTTAAAAATC

Gene 374. >ENST00000309007 cDNA sequence

CCCTCCCCCGGCCGCTGGCTCGCTCGGCTCGCGACGCTGCAGAGGCTCCGAGGCGGCGGC
GGCGACTCCCTCTTTCCCTCCCTCCTCCTCCGTCCGCCCGTCCGTCCGCGCGTCTGTCCG
TTCGGCCCCGGTCCGGCCCCAAGCATGGCCGGCGTCAGCTTCAGCGGCCACCGCCTGGAGC
TGCTGGCGGCTTACGAGGAGGTGATCCGAGAGGAGAGCGCGGCCGACTGGGCTCTGTACA
CATATGAAGATGGCTCCGATGACCTCAAGCTTGACAGCATCAGGAGAAGGGGGCTTGAGG
AGCTTTTCGGGACACTTTGAGAACAGAAAGGTGATGTACGGCTTCTGCAGTGTCAAGGACT
CCCAAGCTGCTCTGCCAAAATACGTGCTCATCAACTGGGTGGGCGAAGATGTGCCTGATG
CCCGCAAGTGCGCTTGTGCCAGCCACGTGGCTAAGGTGGCAGAGTTCTTCCAGGGTGTG
ACGTGATCGTGAACGCCAGCAGCGTGGAAGACATAGACGCGGGTGCCATCGGGCAGCGGC
TCTCTAACGGGCTGGCGCGACTCTCCAGCCCTGTGCTGCACCGACTGCGGCTGCGAGAGG
ATGAGAACGCAGAGCCCGTGGGCACACCTACAGAAAGACGGATGCAGCTGTGGAATGA
AGCGGATTAACCGAGAGCAGTTCTGGGAGCAGGCCAAGAAGGAAGAAGAGCTGCGGAAGG
AGGAGGAGCGGAAGAAGGCCCTGGATGAGAGGCTCAGGTTTCGAGCAGGAGCGGATGGAGC
AGGAGCGGCAGGAGCAAGAGGAGCGCGAGCGGCGCTACCGGGAGCGGGAGCAGCAGATCG
AGGAGCACAGGAGGAAACAGCAGACTTTAGAAGCGGAAGAGGCCAAGAGGCGGTTGAAGG
AGCAGTCTATCTTTGGTGACCATCGGGATGAGGAGGAAGAGACCCACATGAAGAAGTCAG
AGTCGGAGGTGGAGGAGGCAGCAGCTATTATTGCCAGCGGCCTGACAACCAAGGGAGT
TCTTCAAGCAGCAGGAAGAGTCGCATCGGCCTCTGCGGGCAGCTGTGATGTACCTCGC
CCTTCAACCATCGACCAGGCAGCCACCTGGACAGCCACCGGAGGATGGCGCCCACTCCCA
TCCCCACGCGGAGCCCGTCTGACTCCAGCACCGCCTCCACCCCTGTGCTGAGCAGATAG
AGCGGGCCCTGGATGAGGTACCTCCTCGCAGCCTCCACCACTGCCACCGCCACCCCCAC
CAGCCCAAGAGACCCAGGAGCCAGCCCATCTAGACAGTGAGGAGACAGAGCAGCAG
CCCCTCAGGCCTGGGCCGGCCCCATGGAGGAGCCCCCTCAGGCACAGGCGCTCCCCGGG
GGCCAGGCAGCCCTGCAGAGGACTTGATGTTTATGGAGTCTGCAGAGCAGGCTGTCTGG
CTGCTCCCGTGGAGCCTGCCACAGCTGACGCCACGGAGGTCCACGATGCAGCTGACACCA
TTGAAACTGACACTGCCACTGCTGACACCACTGTTGCCAACACGTACCCCCCGCCCA
CCAGCCTCATTGACCTATGGCCTGGCAACGGGGAAGGGCCTCCACACTCCAGGGTGAGC
CCAGGGCCCCACGCCACCCTCGGGTACTGAGGTCAACCTGGCAGAGGTGCCCTGTGCTGG
ATGAGGTGGCTCCGGAGCCACTGCTGCCAGCAGGCGAAGGCTGTGCCACCTTCTCAACT
TTGATGAGCTGCCTGAGCCGCCAGCCACCTTCTGTGACCCAGAGGAAGTGGAAGGGGAGC
CCCTGGCTGCCCCCAGACCCCACTCTGCCCTCAGCCCTTGAGGAGCTGGAGCAAGAGC
AGGAGCCGGAGCCCCACCTGCTAACCAATGGCGAGACCAACAGAAAGAGGGGACCCAGG
CCAGTGAGGGGTACTTCAGTCAATCACAGGAGGAGGAGTTTGCCCAATCGGAAGAGCTCT
GTGCCAAGGCTCCGCCTCCTGTGTTCTACAACAAGCCTCCAGAGATCGACATCACATGCT
GGGATGCAGACCCAGTTCCAGAAGAGGAGGAGGGCTTCGAGGGTGGTGATTAGCGGTGGC
GCCAGCCCTAGGCTACCTTGCCAAGGCCGCCACCTGCATCAGCCTCTGGCCAGACGGC
CCGCCGTGCCTGCATTGCGCAGCAGCTCCGCCTGGCACCCACTCCGGATTCCGGCCCTGGC
TGGGGACTTGGCCGCTTCCCTACCCACAGGGCCTGACTTTTACAGCTTTTCTCTTTTTT
AAAAAGTTGATAGGAGACTTGTACAGTTGACTGGCTTTCTCTCGTTGGTAGTTGAGACG
CTGTTGCAAAATCCACCCCTCCTTCCCTGGTCCAGATTGTAGCTCTTAGTCCTCCCTGCT
CAGCTGGCCGGGTTGGAGGCCTCACCTGCTTGGGGCCTGGCGTGGGGGAGCTCTGGTG

FIGURE 1 (CONT'D)

GGAAATGTCCCCACCTCTTTTCTAGTTTTATGTTTCTTGGGAAATATCACTTTGTA
TTCTCTGTCCAGGGCTTCAGATATTTTGCACGAATTTTAAACATGGCAATAAATGGCTC
GTGGGCTCTGGCTCCCTGGGACCCCTCCCCGCCCTTCTTTTGACCCCTTCTGTCTGGC
CCAAAGGAAGTAGCAGGCCAGCTGGGGCCCTCGGCTACCCCGTCTCCTGCCGGGCA
GGTCCCAGGTTGGAGGCCCTAGGCGCGGTTCAAGTCAGGGCTATGGATGGGGCCAGGGG
CTTTGGTGGCCCTCCCCAAGCTCTTCTCTTTGCTTGGGTTCTTTTTTACGTTTAGTA
ACTGTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTGGAAAGCACAACTTCTGTAAACGGGT
CGTGCTCATGTCTGTTAATAAAGAAATCCAGATCC

Gene 375. >ENST0000292385 cDNA sequence

GGCGGCCGACGCGGCCCGAGGCGCGGGTCCCAGATGTGGGGCCCGGGCCGCGTGGCC
CTGCGGGAGCCCATCCCCACCCTACCCCGGGCCCGGGGACAGGTGTGCACGGGGCG
GCCAAGGGCACCTTCGCCACCTTCGAGCGGGCGAGGTTCGGGCGGGGACGGGGCGGGGAC
CGAGCTAGCGGAGCCAGCGCAGCCTGCCCCGGCTCAGCCCGGCCCGGCCACAGCAAAAGG
AAAGCGAGGGCGGGGAGGAGCGGAGCGGGCTGGGGGCGGGCGCCCGCCACCGGGG
GCCTCTCGGAGTGGGCGCCCTCCCCCGAAACCTGGGCTGGAGTGAGGTGGAAGGATGT
TTGCTGCCACATGGCGACCGCAAGTGACTCCCTTACCGCCGCGGGTCGCGGAGGAGGCA
GGGGGAAGGTGCCCATCTGGTTCTAGGCCTCCTCTCCCTGCTGGCAGATGGGAACAGGT
TCTTCTTGAGGAACTGAGGCAAAGAGGAGGGCAGGTCTGAGGGACCCGCTTGGGCTGG
CCTCACCCGCACACTGGGAGGGCAGCCAGGTGGGGACTCTGACCTGGGGGCTTCTGGAGG
AGAGGATGAGATGGCTGGGCATCCATGGCATGGTACTGCAGCACTGGCCAGCAGCCAGGC
CTGGAGGGATGGACGCGAGAGACAAGCTCTCGTGTCTGCAGGGCTCTGTACACATATGA
AGATGGCTCCGATGACCTCAAGCTTGAGCATCAGGAGAAGGGGGCTTGCAGGAGCTTTC
GGGACACTTTTGAGAACCAGAAGGTGATGTACGGCTTCTGCAGTGTCAAGGACTCCCAAGC
TGCTCTGCCAAAATACGTGCTCATCAACTGGGTGGGCGAAGATGTGCCTGATGCCCGCAA
GTGCGCTTGTGCCAGCCACGTGGCTAAGGTGGCAGAGTTCTTCCAGGGTGTGCAGCTGAT
CGTGAACGCCAGCAGCGTGGGAAGACATAGACGCGGGTGCCATCGGGCAGCGGCTCTCTAA
CGGGCTGGCGCGACTCTCCAGCCCTGTGCTGCACCGACTGCGGCTGCGAGAGGATGAGAA
CGCAGAGCCCGTGGGCACCACCTACCAGAAGACGGATGCAGCTGTGGAAATGAAGCGGAT
TAACCGAGAGCAGTTCTGGGAGCAGGCCAAGAAGGAAGAAGAGCTGCGGAAGGAGGAGGA
GCGGAAGAAGGCCCTGGATGAGAGGCTCAGGTTTCGAGCAGGAGCGGATGGAGCAGGAGCG
GCAGGAGCAAGAGGAGCGCGAGCGGCGCTACCGGGAGCGGGAGCAGCAGATCGAGGAGCA
CAGGAGGAAAACAGCAGACTTTAGAAGCGGAAGAGGCCAAGAGGCGGTTGAAGGAGCAGTC
TATCTTTGGTGACCATCGGGATGAGGAGGAAGAGACCCACATGAAGAAGTCAGAGTCGGA
GGTGGAGGAGGAGCAGCAGCTATTATTGCCAGCGGCCTGACAACCCAAAGGGAGTTCTTCAA
GCAGCAGGAAAGAGTCGCATCGGCCTCTGCGGGCAGCTGTGATGTACCTTCGCCCTTCAA
CCATCGACCAGGCAGCCACCTGGACAGCCACCGGAGGATGGCGCCCACTCCCATCCCCAC
GCGGAGCCCGTCTGACTCCAGCACCGCCTCCACCCCTGTGCTGAGCAGATAGAGCGGGC
CCTGGATGAGGTCACTCCTCGCAGCCTCCACCACTGCCACCGCCACCCCCAACAGCCCA
AGAGACCAGGAGCCAGCCCATCTAGACAGTGAGGAGACCAGAGCAGCAGCCCTCA
GGCCTGGGCGGGCCCATGGAGGAGCCCCCTCAGGCACAGGCGCCTCCCCGGGGGCCAGG
CAGCCCTGCAGAGGACTTGATGTTTATGGAGTCTGCAGAGCAGGCTGTCTGGCTGCTCC
CGTGGAGCCTGCCACAGCTGACGCCACGGAGGTCCACGATGCAGCTGACACCATTTGAAAC
TGACACTGCCACTGCTGACACCACTGTTGCCAAACAACGTACCCCCCGCCGCCACAGCCT
CATTGACCTATGGCCTGGCAAAGGGGAAGGGGCTCCCACTCCAGGGTGAGCCAGGGC
CCCCACGCCACCCTCGGGTACTGAGGTACCCCTGGCAGAGGTGCCCCCTGCTGGATGAGGT
GGCTCCGGAGCCACTGCTGCCAGCAGGCGAAGGCTGTGCCACCTTCTCAACTTTGATGA
GCTGCCTGAGCGGCCAGCCACCTTCTGTGACCCAGAGGAAGTGGAAGGGGAGCCCTGGC
TGCCCCCAGACCCCACTCTGCCCTCAGCCCTTGAGGAGCTGGAGCAAGAGCAGGAGCC
GGAGCCCACCTGCTAAACCAATGGCGAGACCAACCAAGGAGGGGACCCAGGCCAGTGA
GGGGTACTTCAGTCAATCAAGGAGGAGGAGTTTGCCCAATCGGAAGAGCTCTGTGCCAA
GGCTCCGCCTCCTGTGTTCTACAACAAGCCTCCAGAGATCGACATCATGCTGGGATGC
AGACCAGTTCCAGAAGAGGAGGAGGGCTTCGAGGGTGGTGATTAGCGGTGGCGCCAGCC
CTAGGCTACCTTGGCAAGGCCGCCACCTGCATCAGCCTCTGGCCAGACGGCCCGCGT
GCCTGCATTGCGAGCAGCTCCGCCTGGCACCCACTCCGGATTCCGGCCCTGGCTGGGGAC

FIGURE 1 (CONT'D)

TTGGCCGCTTCCCTACCCACAGGGCCTGACTTTTACAGCTTTTCTCTTTTTTAAAAAGT
TGATAGGAGACTTGTACAGTTGACTGGCTTTCCTCTCGTTGGTAGTTGAGACGCTGTTGC
AAATTCCACCCCTCCTTCCCTGGTCCAGATTGTAGCTCTTAGTCCTCCCTGCTCAGCTGG
CCGGGTTGGAGGCCTCACCTGCTTGGGGCCTGGCGTGGGGGGAGCTCTGGTGGGAAAT
GTCCCCACCTCTTTTCTAGTTTTATGTTTCTTGGGAAATATCACTTTGTATTCTCTG
TCCAGGGCTTCAGATATTTTGCACGAATTTTAAACATGGCAATAAATGGCTCGTGGGCT
CTGGCTCCCTGGGACCCCTCCCGCCCTTCTTTTGACCCCTTCTGTCTGGCCCAAAGG
AAGTAGCAGGCCAGCTGGGGCCCCTCGGCTACCCCCCTCTCCTGCCGGGCAGGTCCCA
GGTTGGAGGCCCTAGGCGCGGTTTCAAGTCAGGGCTATGGATGGGGCCCAGGGGCTTTGGT
GGCCCTCCCAACTCCTTCTCTTTGCTTGGGTTCTTTTTTTCAGTTTAGTAAGTGT
TTTTTTGTTTTTTTTTTTTTTTTTTTTTTTGGAAAGCACAACTTCTGTAACGGGTCTGCTC
ATGTCTGTTAATAAAGAAATCCAGATCC

Gene 376. >ENST00000327525 cDNA sequence

GGCCGATCCCAACGAGGCTCCCTGGAGCCCAGCAGAGCAGCGCCCTGGCCGGGCCAAG
CAGGAGCCGGCATCATGGATTCTTCAAAGTAGTGCTGGAGGGGCCAGCACCTTGGGGCT
TCCGGCTGCAAGGGGGCAAGGACTTCAATGTGCCCCTCTCCATTTCCCGGCTCACTCCTG
GGGGCAAAGCGGCGCAGGCCGGAGTGGCCGTGGGTGACTGGGTGCTGAGCATCGATGGCG
AGAATGCGGGTAGCCTCACACATCGAAGCTCAGAACAAGATCCGGGCCTGCGGGGAGC
GCCTCAGCCTGGGCCTCAGCAGGGCCCAGCCGGTTTCAAGCAAACCGCAGAAGGCCTCCG
CCCCCGCCGCGGACCTTCCGCGGTACACCTTTGACCCAGCGTCTCCCTCAACAAGACGG
CCCGGCCCTTTGGGGCGCCCCCGCCGCTGACAGCGCCCCGAGCAGAATGGACAGCCGC
TCCGACCGCTGGTCCAGATGCAGCAAGCAGCGGCTGATGGAGAACACAGAGGACTGGC
GGCCGCGGCGGGGACAGGCCAGTCGCGTTCTTCCGCATCCTTGCCACCTCACAGGCA
CCGAGTTCATGCAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGCCAGGTGCCCAGGA
CAGAAGCCCCAGCCCCAGCCTCATCTACCCCCAGGAGCCCTGGCCTGGCCCTACCGCCC
CCAGCCCTACCAGCCGCCCCGCTGGGCTGTGGACCTGCGTTTGGCGAGCGCTATGCCC
CGGACAAAACGAGCACAGTGCTGACCCGGCACAGCCAGCCGGCCACGCCACGCCGCTGC
AGAGCCGCACCTCCATTGTGCAGGCAGCTGCCGGAGGGGTGCCAGGAGGGGGCAGCAACA
ACGGCAAGACTCCCGTGTGTACACAGTGCCACAAGGTCATCCGGGGCCGCTACCTGGTGG
CGCTGGGGCCACGCGTACCAACCCGAGGAGTTTGTGTGTAGCCAGTGTGGGAAGGTCCTGG
AAGAGGGTGGCTTCTTTGAGGAGAAGGGCGCCATCTTCTGCCCCACCATGCTATGACGTGC
GCTATGCACCCAGCTGTGCCAAGTGCAAGAAGAAGATTACAGGCGAGATCATGCACGCCC
TGAAGATGACCTGGCACGTGCACTGCTTTACCTGTGCTGCCTGCAAGACGCCCATCCGGA
ACAGGGCCTTCTACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGACTATGAGAAGATGT
TTGGCACGAAATGCCATGGCTGTGACTTCAAGATCGACGCTGGGGACCGCTTCTCTGGAGG
CCCTGGGCTTCAGCTGGCATGACACCTGCTTCTGTCTGTGCGATATGTGAGATCAACCTGG
AAGGAAAGACCTTCTACTCCAAGAAGGACAGGCCTCTCTGCAAGAGCCATGCCTTCTCTC
ATGTGTGAGCCCCCTTCTGCCCCAGCTGCCCGGCTGGCCCTAGCCTGAGGGGCCTGGAG
TCGTGGCCCTGCATTTCTGGGTAGGGCTGGCAATGGTTGCCTTAACCTGGCTCCTGGCC
CGAGCCTGGGGCTCCCTGGGGCCCTGCCCCACCCACCTTATCCTCCCACCCCACTCCCTCC
ACCACCACAGCACACCGATGCTGGCCACACCAGCCCCCTTTCACTCCAGTGCCACAATA
AACCTGTACCCAGCTGTG

Gene 377. >ENST00000328562 cDNA sequence

CGACGCAGAGCAGCGCCCTGGCCGGGCCAAGCAGGAGCCGGCATCATGGATTCTTCAAA
GTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGGGGCAAGGACTTCAAT
GTGCCCCCTCTCCATTTCCCGGCTCACTCCTGGGGGCAAAGCGGCGCAGGCCGGAGTGGCC
GTGGGTGACTGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGCCTCACACACATCGAA
GCTCAGAACAAGATCCGGGCCTGCGGGGAGCGCCTCAGCCTGGGCCTCAGCAGGGCCCAG
CCGGTTCAGAGCAAACCGCAGAAGGCCTCCGCCCCCGCCGCGGACCTCCGCGGCCTTTG
CACCCAGCGTCTCCCTCAACAAGACGGCCCCGGCCCTTTGCCCCCGCCCGCTGACAGCGCC
CCGCAGCAGAATGGACAGCCGCTCCGACCGCTGGTCCCAGATGCCAGCAAGCAGCGGCTG
ATGGAGAACACAGAGGACTGGCGGCCCGCGCCGGGGGCCAGTCGCGTTCTTCCGCATCC
TTGCCACCTCACAGGCACCGAGTTCAGTAATGCAAGACCCGGATGAGGAGCACCTGAAG
AAATCAAGCCAGGTGCCCAGAAGCCCCAGCCCCAGCCTCATCTACCCCCAGGAGCCCTG

FIGURE 1 (CONT'D)

GCCTGGCCCTACCGCCCCAGCCCTACCAGCCGCCCGCCCTGGGCTGTGGACCTGCGTT
TGCCGAGCGCTATGCCCCGGACAAAACGAGCACAGTGCTGACCACAGCCAGCCGGCCACG
CCACGCCGCTGCAGAGCCGCACCTCCATTGTGCAGGCAGCTGCCGGAGGGGTGCCAGGA
GGGGGCAGCAACAACGGCAAGACTCCCGTGTGTCAACAGTGCCACAAGGTATCCGGGGC
CGCTACCTGGTGGCGCTGGGCCACGCGTACCACCCGGAGGAGTTTGTGTGTAGCCAGTGT
GGGAAGGTCTTGAAGAGGGTGGCTTCTTTGAGGAGAAGGGCGCCATCTTCTGCCACCA
TGCTATGACGTGCGCTATGCACCCAGCTGTGC CAAGTGCAAGAAGAAGATTACAGGCGAG
ATCATGCACGCCCTGAAGATGACCTGGCAGCTGCACTGCTTTACCTGTGCTGCTGCAAG
ACGCCCATCCGGAACAGGGCCTTCTACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGAC
TATGAGAAGATGTTTGGCACGAAATGCCATGGCTGTGACTTCAAGATCGACGCTGGGGAC
CGCTTCTGGAGGCCCTGGGCTTCAGCTGGCATGACACCTGCTTCGTCTGTGCGATATGT
CAGATCAACCTGGAAGGAAAGACCTTCTACTCCAAGAAGGACAGGCCTCTCTGCAAGAGC
CATGCCCTTCTCTCATGTGTGAGCCCTTCTGCCACAGCTGCCGCGGTGGCCCTTAGCCT
GAGGGGCTGGAGTCGTGGCCCTGCATTTCTGGGTAGGGCTGGCAATGTTTGCCTTAACC
CTGGCTCCTGGCCCCGAGCCTGGGGCTCCCTGGGCCCTGCCCCACCCACCTTATCCTCCCA
CCCCACTCCCTCCACCACACAGCACACCGATGCTGGCCACACCAGCCCCCTTTACCTC
CAGTGCCACAATAAACCTGTACCCAGCTGTG

Gene 378. >ENST00000330043 cDNA sequence

CGACGCAGAGCAGCGCCCTGGCCGGGCAAGCAGGAGCCGGCATCATGGATTCTTTCAA
GTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTTCGGCTGCAAGGGGGCAAGGACTTCAAT
GTGCCCCCTCTCCATTTCCCGGCTCACTCCTGGGGGCAAAGCGGCGCAGGCCGGAGTGGCC
GTGGGTGACTGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGCCTCACACACATCGAA
GCTCAGAACAAGATCCGGGCCTGCGGGGAGCGCCTCAGCCTGGGCCTCAGCAGGGCCAG
CCGGTTCAGAGCAAACCGCAGAAGGTGCAGACCCCTGACAAACAGCCGCTCCGACCGCTG
GTCCAGATGCCAGCAAGCAGCGGCTGATGGAGAACACAGAGGACTGGCGGCCGCGGCCG
GGGACAGGCCAGTCGCGTTCTTCCGCATCCTTGCCACCTCACAGGCACCGAGTTTCATG
CAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGCCAGGTGCCCAGGACAGAAGCCCCA
GCCCCAGCCTCATCTACACCCAGGAGCCCTGGCCTGGCCCTACCGCCCCAGCCCTACC
AGCCGCCCGCCCTGGGCTGTGGACCTGCGTTTGCCGAGCGCTATGCCCCGGACAAAACG
AGCACAGTGCTGACCCGGCACAGCCAGCCGGCCACGCCCACGCCGCTGCAGAGCCGCACC
TCCATTGTGCAGGCAGCTGCCGGAGGGGTGCCAGGAGGGGGCAGCAACAACGGCAAGACT
CCCGTGTGTCAACAGTGCCACAAGGTATCCGGGGCCGCTACCTGGTGGCGCTGGGCCAC
GCGTACCACCCGGAGGAGTTTGTGTGTAGCCAGTGTGGGAAGGTCTTGAAGAGGGTGGC
TTCTTTGAGGAGAAGGGCGCCATCTTCTGCCACCATGCTATGACGTGCGCTATGCACCC
AGCTGTGCCAAGTGCAAGAAGAAGATTACAGGCGAGATCATGCACGCCCTGAAGATGACC
TGGCACGTGCACTGCTTTACCTGTGCTGCCTGCAAGACGCCCATCCGGAACAGGGCCTTC
TACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGACTATGAGAAGATGTTTGGCACGAAA
TGCCATGGCTGTGACTTCAAGATCGACGCTGGGGACCGCTTCCTGGAGGCCCTGGGCTTC
AGCTGGCATGACACCTGCTTCGTCTGTGCGATATGTCAGATCAACCTGGAAGGAAAGACC
TTCTACTCCAAGAAGGACAGGCCTCTCTGCAAGAGCCATGCCTTCTCTCATGTGTGAGCC
CCTTCTGCCACAGCTGCCGCGGTGGCCCTTAGCCTGAGGGGCTGGAGTCGTGGCCCTG
CATTTCTGGGTAGGGCTGGCAATGTTTGCCTTAACCCTGGCTCCTGGCCCCGAGCCTGGGG
CTCCCTGGGCCCTGCCCCACCCACCTTATCCTCCACCCCACTCCCTCCACCACACAGC
ACACCGATGCTGGCCACACCAGCCCCCTTTACCTCCAGTGCCACAATAAACCTGTACCC
AGCTGTG

Gene 379. >ENST00000330641 cDNA sequence

AGAACACTGGCGGCCGATCCCAACGAGGCTCCCTGGAGCCGACGCAGAGCAGCGCCCTG
GCCGGGCCAAGCAGGAGCCGGCATCATGGATTCTTTCAAAGTAGTGCTGGAGGGGCCAGC
ACCTTGGGGCTTCCGGCTGCAAGGGGGCAAGGACTTCAATGTGCCCTCTCCATTTCCCG
GCTCACTCCTGGGGGCAAAGCGGCGCAGGCCGGAGTGGCCGTGGGTGACTGGGTGCTGAG
CATCGATGGCGAGAATGCGGGTAGCCTCACACACATCGAAGCTCAGAACAAGATCCGGGC
CTGCGGGGAGCGCCTCAGCCTGGGCCTCAGCAGGGCCAGCCGGTTGAGAGCAAACCGCA
GAAGGCTCTCGCCCCGCGCGGACCCTCCGCGGTACACCTTTGCACCCAGCGTCTCCCT
CAACAAGACGGCCCCGGCCCTTTGGGGCGCCCCGCCCCGCTGACAGCGCCCCGAGCAGAA

FIGURE 1 (CONT'D)

TGGACAGCCGCTCCGACCGCTGGTCCCAGATGCCAGCAAGCAGCGGCTGATGGAGAACAC
AGAGGACTGGCGGCCGCGGCCGGGGACAGGCCAGTCGCGTTCCTTCCGCATCCTTGCCCA
CCTCACAGGCACCGAGTTTCATGCAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGGGA
AAAGTATGTCCTGGAGCTGCAGAGCCACGCTACACCCGCCTCCGGGACTGGCACCACCA
GCGCTCTGCCCACGTGCTCAACGTGCAGTCGTAG

Gene 380. >ENST00000331981 cDNA sequence

ATGGATTCTTCAAAGTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGG
GGCAAGGACTTCAATGTGCCCCCTCTCCATTTCCCGGCTCACTCCTGGGGGCAAAGCGGCG
CAGGCCGGAGTGGCCGTGGGTGACTGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGC
CTCACACACATCGAAGCTCAGAACAAGATCCGGGCCCTGCGGGGAGCGCCTCAGCCTGGGC
CTCAGCAGGGCCAGCCGGTTTCAGAGCAAACCGCAGAAGGCCTCCGCCCCCGCCGCGGAC
CCTCCGCGGTACACCTTTGCACCCAGCGTCTCCCTCAACAAGACGGCCCGGCCCTTTGGG
GCGCCCCCGCCCGCTGACAGCGCCCCGAGCAGAATGGGTGCAGACCCCTGACAAACAGC
CGCTCCGACCGCTGGTCCAGATGCCAGCAAGCAGCGGCTGATGGAGAACACAGAGGACT
GGCGGCCGCGGCCGGGGACAGGCCAGTCGCGTTCCTTCCGCATCCTTGCCACCTCACAG
GCACCGAGTTTCATGCAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGCCAGGTGCCCA
GGACAGAAGCCCCAGCCCCAGCCTCATCTACACCCAGGAGCCCTGGCCTGGCCCTACCG
CCCCAGCCCTACCAGCCGCCCGCCCTGGGCTGTGGACCCTGCGTTTGCCGAGCGCTATG
CCCCGGACAAAACGAGCACAGTGCTGACCCGGCACAGCCAGCCGGCCACGCCCCAGCCGC
TGCAGAGCCGCACCTCCATTGTGCAGGCAGCTGCCGGAGGGGTGCCAGGAGGGGGCAGCA
ACAACGGCAAGACTCCCGTGTGTACCAGTGCCACAAGGTCATCCGGGGCCGCTACCTGG
TGGCGCTGGGCCACGCGTACCACCCGGAGGAGTTTGTGTGTAGCCAGTGTGGGAAGGTCC
TGGAAGAGGGTGGCTTCTTTGAGGAGAAGGGCGCCATCTTCTGCCACCATGCTATGACG
TGCGCTATGCACCCAGCTGTGCCAAGTGCAAGAAGAAGATTACAGGCGAGATCATGCACG
CCCTGAAGATGACCTGGCACGTGCACTGCTTTACCTGTGCTGCTGCAAGACGCCCATCC
GGAACAGGGCCTTCTACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGACTATGAGAAGA
TGTTTGGCACGAAATGCCATGGCTGTGACTTCAAGATCGACGCTGGGGACCGCTTCCTGG
AGGCCCTGGGCTTCAGCTGGCATGACACCTGCTTCGTCTGTGCGATATGTAGATCAACC
TGGAAGGAAAGACCTTCTACTCCAAGAAGGACAGGCCTCTCTGCAAGAGCCATGCCTTCT
CTCATGTGTGAGCCCTTCTGCCACAGCTGCCGCGGTGGCCCCCTAGCCTGAGGGGCTG
GAGTCGTGGCCCTGCATTTCTGGGTAGGGCTGGCAATGGTTGCCTTAACCCCTGGCTCCTG
GCCCGAGCCTGGGGCTCCCTGGGCCCTGCCCCACCCACCTTATCCTCCACCCCACTCCC
TCCACCACCACAGCACACCGATGCTGGCCACACCAGCCCCCTTTACCTCCAGTGCCACA
ATAAACCTGTACCCAGCTG

Gene 381. >ENST00000329540 cDNA sequence

GCGGTAGCGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGTGTGGAGCGA
GGGAGCGGCGCGAGCGGCGGCATGACGCGGAGGCGGAGCAGGCCGAGCGGCGGTGCGGGC
AGGCGCGAGCGGGCTCGGGCCGCGGGGCCGAGAAGCCCAGGCGCCGAGCCCCGCGC
CCGCCAAGCCTGGAGGCGGGAGCGGGTGAGGCCCTCCGAGGCGCCGGCGGAGCCCGAC
CACGACGGCCCCAGGGAGGATGACGAACCCAACCTGGTGCCCGGCCCGCAGGTAGGAGCG
AGCGGGGAGACTTCGGCGGCTCGGGCGCTTTACCTTCCCGAGCGGGAGCGGGAGTGGG
GCGGGGTGGGGATGGGCCATCCTGCCGCGGTGGGGTAGCAGCCTTCCCCCGGGTCCGG
CGCCGAAGCTTTCTCCCCCGGGCGGGAATGGAGGCTGGACCCCTCTCCCCAAAGCCGAG
GCTCGGTCCGCGCTCCTGCGACTAGGCTGAAGCTGCTCCCCTCTCCCCGCGCCTCCGGG
CGTTCTGGCCGTACACCACACTGGGACTGGGACTGGGACTGGGCTGTGATCCCGAGGCC
GCAGCTCCGCTCTCGGCCCGCCACCTCCCCGGGCCACCTGCTCCCTCAGCCACAGGCC
ATCTCGGGGCTCTGGGACTGGACGACTGCAGCCTCTTCCCTCTGCCCCCGGGAACGGCTC
CACTCCGTCCCTGCGAGCGCCTGCAGCCGCGGCCCTCAGCAGCTGTGTCTCCTGGCGC
CTCCTCGCCATACCCAGCAGAGCAGTTGGAGCAGACAGCCAGGCTGCCCGGAGGAGTTT
TGGTGGGGTTTCTGCACTGAGGTGGAAACCCAGCAGAACCTGCCCTTCTTCCCTCCCTG
CTCCGCAAGGCAGCCACCCGACCTTGAGATCCAGGTTTGGAGAATCCTGCTGAGAGC
GAACAGTAGGAGGATTCCCCAAAGCTTCAGCTTGCCACCTGGAAGAAGGTCACTTTCTT
TTGAGCAAAGGAGATAACGGGAGGTACCCTGCCAAAGTTCACTGAGAGGCGGGGTGACA
TGGGCCACGGTTGCTCTGGGAGGGTTGTGGCACTCGGGGCTGGGTGGCTCTCCCTAAGCT

FIGURE 1 (CONT'D)

TGCTCTGACAAAAGAGTTTTGAGTTGGTCTTTTGGCTGAGCCTGCCAGGAAGGCAGGCT
CCTGCAGGAGTCTTGGAGGGTCGGATGCGGCGCCGGATGAGGATGAGGCGTGGCGGAAGA
TGCGTTTGGCTCTGCAGACACTGCATCGGGCAGCAGGGGACTCTGGGAGGCTGGTGCAGC
CAGAAGGCATGGCTCTTGACAGCCTTCTAGTAGAATCTCTGGAATTGTGCATATGAAGAA
ACAGAAACTCAGAGCAACTAAACATTTGCCCAAATGACTCCAAGTGTAGGTGTGAGACAA
AAGAAAAGAAAAGGACTTTTAGGTCCCCCCCCGCTCCAGCCAGCCTGTGCAGACTTGCTG
CCTGCTGTGTCAACGGGAACGCAAAGGCTGGGAAGAAGGCCCTTCTCAAAATGGACTGGT
GTTGCAGGGTGAGAAGCTGCCCCCTGACTTCATGCAAAGCTCGTCAAGAATCTCCTAGG
CGAGATGCCTCTGTGGGTCTGCCAGAGTTGCCGAAAGAGCATGGAGGAAGATGAAAGGCA
GACAGGTGAGAACATGCAGTGGCGATCTCCTTGTCAACACATCCTGCAAATCAAGTC
TTGTGGAGATGACTCTCATTGTCCTCGTCTTCTCCTCATCATCCTCATCCTCGTCTC
CTCTTCTGCCCCCTGGGAACTCGGGAGACTGGGATCCTAGCTCGTTCTGTGCGGCATATA
GCTCTCGGGCCTCTGGAATTCCCCACATTCCAGTGGGGCCATGCCAGGCAGCTCTCTTGG
GAGTCTCCTACCATCCCCGGTGAGGCTTTCCCCGTCTCGGAGCACCACCAGCACTCAGA
CCTCACTGCTCCCCCTAACAGCCCCACCGGCCACCAACCGCAGCCAGCATCTCTAATCCC
GTCTCACCCCAGCTCCTTTGGCTCCCCACCCACCCACACCTGCTGCCCCACCACCCCGGC
AGCACCTTTCCCTGCCAGGCTTCAGAGTGCCCTGTTGCTGCTGCCACTGCCCCCACAC
TCCAGGGCCATGTGAGAGCTCCCATCTACCTCCACCAGCATGCCGCTCCTGAAGATGCC
CCCAACATTCTCGGGGTGCAGCCACCCCTGCAGCGGGCACTGTGGTGGGCACTGCAGTGG
GCCTCTTCTCCACCCCGAGCTCTCAGCCACTCCCTAGCACTCACAGGGATCCCGGGTG
CAAGGGGCACAAGTTTGCACACAGTGGCCTGGCTTGCCAGCTGCCCCAGCCCTGCGAGGC
AGATGAGGGGCTGGGTGAGGAAGAGGATAGCAGCTCTGAGCGAAGCTCCTGCACCTCATC
CTCCACCCACCAGAGAGATGGGAAGTTCTGTGACTGCTGCTACTGTGAGTTCTTCGGCCA
CAATGCGGGCAAAGGAAAGGAAATGGCAGAGAGAAAGCTATGATTCTGATGAGTATGTAT
ACGTGTGTAATCCCAGAGAAGTGAACGCTTGGGAGTGATGAAGGCAGAGTGGAAGCAAAA
AGGCTCTCAGTCCCCCAAGTGTGACAGCCAGCCGAGGGACAGGCCGTGAGCACAGACGGC
GCCAGGAAGGAGGCTCAGATCAGAGGGCATGCTGGCTCTGGCCAGGGGGAGGAAGCAGTG
CAGAAGTCTCATAAGCCACCCGCTGCCCCGACGAGTCGGAAGTATACCGAGATCCGGGAG
AAGCTCCGCTCGAGGCTGACCAGGCGGAAAGAGGAGCTGCCCATGAAGGGGGGCAACCTG
GGCGGGATCCCTGGGGAGCCCGCGTGGACCACCGAGATGTGGATGAGCTGCTGGAATTC
ATCAACAGCACGGAGCCCCAAAGTCCCCAACAGCGCCAGGGCCGCCAAGCGGGCCCGGCAC
AAGCTGAAAAAGAAGGAAAAGGAGAAGGCCAGTTGGCAGCAGAAGCTCTAAAGCAGGCA
AATCGTGTCTTCTGGAAGCCGGGAGCCAAGGCCTGCCAGGGAGAGGCTCTTGGAGTGGCCC
GACCGGGAAGTGGATCGGGTCAACAGCTTCTGAGCAGCCGTCTGCAGGAGATCAAAAAC
ACTGTCAAAGACTCCATCCGTGCCAGCTTCAAGTGTGTGAGCTCAGCATGGACAGCAAT
GGCTTCTCTAAGGAGGGGGCTGCTGAGCCTGAGCCTCAGAGTCTACCCCCCTCAAACCTC
AGTGGCTCCTCAGAGCAGCAGCCTGACATCAACCTTGACCTGTCCCCTTTGACTTTGGGC
TCCCCTCAGAACCAACGTTA CAAGCTCCAGGCGAGCCAGCCCCACCATGGGCAGAAATG
AGAGGCCCCCAACCCATGGACAGAGGTGAGGGGGCCCCCTCCCGGTATCGTCCCGAG
AACGGGCTCGTGAGGAGACTCAACACCGTGCCCAACCTATCCCGGTGATCTGGGTCAAG
ACACCCAAGCCGGGCTACCCAGCTCCGAGGAGCCAAGCTCAAAGGAAGTTCCAGTTGC
AAGCAGGAGCTGCCTGAGCCTGTGTCTCAGGTGGGAAGCCAAGAAGGGCAAGAGGCAG
GGCAGTCAGGCCAAGAAGAGCGAGGCAAGCCCCAGCCCCCGGCCCCAGCCAGCCTAGAG
GTTCCAGTGCCAAGGGCCAGGTGCTGCCCCAAGCAGCCAGGCAGGGTCTAGAGCTT
CCCAAAGTAGGCAGCTGTGCTGAGGCTGGAGAGGGGAGCCGGGGGAGCCGGCCAGGACCA
GGTTGGGCTGGCAGTCCCAAACTGAGAAGGAGAAGGGCAGCTCCTGGCGAACTGGCCA
GGCGAGGCCAAGGCAAGGCCTCAGGAGCAGGAGTCTGTGCAGCCCTCAGGCCAGCAAGG
CCACAGAGCTTGCCCCAGGGCAAGGGCCGACGCGCCGAGCCGCAACAAGCAGGAGAAG
CCAGCCTCCTCCTTGACGATGTGTTCTGCCCAAGGACATGGACGGGGTGGAGATGGAT
GAGACTGACCGAGAGGTGGAGTACTTTAAGAGGTTCTGTTTGGATTCTGCAAAGCAGACT
CGTCAGAAAGTTGCTGTGAACTGGACCAACTTCAGCCTCAAGAAAACTCCTAGCACA
GCTCAGTGAGGCCCTGCCCCAGGCTGAGCTGCTTCAGGGCGTCTGAGGCCCTGACTGCCA
GCTGAAGGCGTATAATTTTCCCTCCGTGTGCCCCACCTACCCGTCCAAGACCCTCTGTG
CTCCCCACCATCCTGGACCAACAAAAGCTGAACGGATGCCACA CTGTGCTGGGGCCCCT

FIGURE 1 (CONT'D)

TGACCTCAGCAGAGCCGCTTCTCTGGTGCTACGCAGCCTCCACACTCAGAGCCCGTGGACT
GGGCTGGCCTAAGGGCCAGGGCTGATGGTACTGCTGGCCCAACA CTGCTCTCTTTGTGTT
TGGTTTTTTTTGTTTTTGTATTTTGTATTTTCCAATTCTTTACTTTTGATACTGTG
AAGATCTTTCGTGCCGAAAGATAAAGCAACATTTGGACACAG

Gene 382. >ENST00000330503 cDNA sequence

CAGCGGGCTCGCACCAGCAGAGGTGCCTGCCGAGGAAGCCGCTCCGAGGCGGAAGATGAG
GACGACGAGGACTACGTGCCCTATGTGCCGTTACGGCAGCGCCGGCAGCTACTGCTCCAG
AAGCTGCTGCAGCGAAGACGCAAGGGAGCTGCCGAGGAAGAGCAGCAGGACAGCGGTAGT
GAACCCCGGGGAGATGAGGACGACATCCCGCTAGGCCCTCAGTCCAACGTGAGCCTCCTG
GATCAGCACCAGCACCTTAAAGAGAAGGCTGAAGCGCGCAAAGAGTCTGCCAAGGAGAAG
CAGCTGAAGGAAGAAGAGAAGATCCTGGAGAGTGTGCGGAGGGCCGAGCATTGATGTCA
GTGAAGGAGATGGCTAAGGGCATTACGTATGATGACCCCATCAAAACAGCTGGACTCCA
CCCCGTTATGTTCTGAGCATGTCTGAAGAGCGACATGAGCGCGTGCGGAAGAAATACCAC
ATCCTGGTGGAGGGAGACGGTATCCCACCACCCATCAAGAGCTTCAAGGAAATGAAGTTT
CCTGCAGCCATCCTGAGAGGCCTGAAGAAGAAAGGCATTACCACCCAAACCCATTAG
ATCCAGGGCATCCCCACCATTCTATCTGGCCGTGACATGATAGGCATCGCTTTCACGGGT
TCAGGCAAGACACTGGTGTTCAGTTGCCCGTCATCATGTTCTGCCTGGAACAAGAGAAG
AGGTTACCTTCTCAAAGCGCAGGGGGCCCTATGGACTCATCATCTGCCCCTCGCGGGAG
CTGGCCCGGCAGACCCATGGCATCCTGGAGTACTACTGCCGCTGCTGCAGGAGGACAGC
TCAACCACTCCTGCGCTGCGCCTCTGCATTGGGGGCATGTCCGTGAAAGAGCAGATGGAG
ACCATCCGACACGGTGTACACATGATGGTGGCCACCCCGGGGCGCCTCATGGATTTGCTG
CAGAAGAAGATGGTCAGCCTAGACATCTGTGCTACCTGGCCCTGGACGAGGCTGACCGC
ATGATCGACATGGGCTTCGAGGGGTGACATCCGTACCATCTTCTCCTACTTCAAGGGCCAG
CGACAGACCCTGCTCTTCAGTGCCACCATGCCGAAGAAGATTCAAGAACTTTGCTAAGAGT
GCCCTTGTAAGCCTGTGACCATCAATGTGGGGCGCGCTGGGGCTGCCAGCCTGGATGTC
ATCCAGGAGGTAGAATATGTGAAGGAGGAGGCCAAGATGGTGTACCTGCTCGAGTGCCTG
CAGAAGACACCCCGCCTGTACTCATCTTTGCAGAGAAGAAGGCAGACGTGGACGCCATC
CACGAGTACCTGCTGCTCAAGGGGGTTGAGGCCGTAGCCATCCATGGGGGCAAAGACCAG
GAGGAACGGACTAAGGCCATCGAGGCATTCCGGGAGGGCAAGAAGGATGTCCTAGTAGCC
ACAGACGTTGCCTCCAAGGGCCTGGACTTCCCTGCCATCCAGCACGTGTCATCAATTATGAC
ATGCCAGAGGAGATTGAGAACTATGTACACCGGATTGGCCGCACCGGGCGCTCGGGAAAC
ACAGGCATCGCCACTACCTTCATCAACAAAGCGTGTGATGAGTCAGTGCTGATGGACCTC
AAAGCGCTGCTGCTAGAAGCCAAGCAGAAGGTGCCGCCCCTGCTGCAGGTGCTGCATTGC
GGGGATGAGTCCATGCTGGACATTGGAGGAGAGCGCGGCTGTGCCTTCTGCGGGGGCCTG
GGTCATCGGATCACTGACTGCCCCAAACTCGAGGCTATGCAGACCAAGCAGGTGAGCAAC
ATCGGTGCAAGGACTACCTGGCCACAGCTCCATGGACTTCTGAGCCGACAGTCTTCCC
TTCTCTCCAAGAGGCCTCAGTCCCCAAGACTGCCACCAGTCTACACATACAGCAGCCCCC
TGGACAGAATCAGCATTTTCAATTGAGCTGGCCTGGAATGGGCCAGGCTGGTCTGGCTGC
CTGTTCCCTGTGCTCTTCAGAATTACTGTTTTTGTTCCTTTTACCCAGCTGCCATTAA
AGCCCAAACCTCTAGCCC

Gene 383. >ENST00000329365 cDNA sequence

ATGGGAAGATGGGTGAACCAAGTCCACAGATGGCTTCTTCCTCTTGGGCATCTTTTCC
CACAGCCAGACTGACCTTGTCCTCTTCTCTGCACTTATGGTGGTCTTCACAGTGGCCCTC
TGTGGGAATGTCCTCCTCATCTTCTCATCTACCTGGACGCTGGACTTCACACCCCATG
TACTTCTTCTCAGCCAGCTCTCCCTCATGGACCTCATGTTGGTCTGTAACATTGTGCCA
AAGATGGCAGCCAACCTTCTGTCTGGCAGGAAGTCCATCTCCTTTGTGGGCTGTGGCATA
CAAATTGGCTTTTTTGTCTCTCTTGTGGGATCTGAGGGGCTCTTGTGGGACTCATGGCT
TATGACCGCTACGTGGCCGTTAGCCACCCACTTCACTATCCCATCCTCATGAATCAGAGG
GTCTGTCTCAGATTACTGGGAGCTCCTGGGCCTTTGGGATAATAGATGGAGTGATTAG
ATGGTGGCAGCCATGGGCTTACCTTACTGTGGCTCAAGGAGCGTGGATCACTTTTTCTGT
GAGGTACAAGCTTTATTGAAGCTGGCCTGTGCAGACACTTCCCTTTTGGACACCCTCCTC
TTTGCTTGCTGTGTCTTCATGCTTCTCCTTCCCTTCTCCATCATCATGGCCTCCTATGCT
TGCATCAGGGGCTGTGCTCCGAATACGCTCTGCTCAGGCCTGGAAAAAGCCCTGGCCAC
CTGCTCCTCCACCTAACAGCTGTACCCCTCTTCTATGGGGCAGCCATGTTTATGTACCT

FIGURE 1 (CONT'D)

GAGGCCTAG

Gene 384. >ENST00000328095 cDNA sequence

GCCGGGCAGCAGCGCAGGGGCAGCTCGTCCCGTCGCACCGCGTCGCGCAGCCTGTCCAC
GCCGACCTCAGCACCAGGGCCGACGAGAGCTCGGCGGAGAAGCGGCTCGCGCTGTGCGAG
ATCTGCGAGTGGATGGTCAAGAGCGTGCCCTGCTCCAGGGCGACAGCAACAGCTCGGCG
GGCTGCAGGAATTCACCTTCGTCACTTCTGTCCCTACACAGCAAGCTGACTCGCGCGCAG
AATGAAGGAAGTGGAAAAAGTGCTCGGTGGACGCTGGATCCAGAGGGCGGCAAGGGTGGG
AGATCTCTTAGGACAAGAGCTGCATCCATGGACAGCAGCAGCAAATGCGCTCGGAGCCTA
AGTCAAGCTGCCACGAAAAAGCACTGCAGTCTAGCCAGGGGGGTGCCGGGACAGCCCT
GGACCCAGTTTTTCAGATGGCCTGCAAGCCCTGGCTCTCACAGCAATGATGACTTTAAT
AGCTGGAGTGCATTTTCGCCCTGGAACTAGCTCAAATGCTAGTACTGTTACTGGGAGACTT
TCACCCATTATAGTCAAAGGAGACTATCTTGGAGATGGGGACGCACATTCTGTGGGGTAC
CCGCCATCTGCGGCAAAGATGCCCCTACTCACCCAGTCTGAGACAAGCAATCCTAACGTG
GAAAGCTTTCTGAGTGATCTCAGTCTTATCTCCTCACCAACATCATTAACTGTGTCCACC
CAGTCTCACCTGGCACCATGATGCAGCAGACGCCATACTCCTTTGTGCCACCAAAACC
AGTCTGAATTCGCCCAGCCAAACTGCAAAAAACAGACGTGGCCAGTCCAACATGAGCCCT
TTGCCCCAGATGCAAACTCCAGGAGCACAAATCAAGTTACGGAGCTGTGAGTCCGTGT
AACTGTGTAGCGGGACTCCTGGAGGAGATGCTGACTTCTGACTCTCCTCCCATAATGAC
ATTATGACACCAGCTGATCCTGGAGTAGCCCAATCCAACAGTCGGTTTCTGGGCCAGAAT
ACCATGATGGGCCTTAATTCAGCCATGTCAACCTATGGCAGCCAGGCATCTGGATACAAA
ATGAGGCATCCCAGCTCCCATATCCACCCTGGGCATGCTCAGCAGACATATGCAGCTTAC
GGCCGTGCCCTGTCTCACACGGAAAAACCAAGCCCCACACCTCAGGTGTGAACCAACTG
ACCCAGTGAAGACACCTTTGCAAGTGCCTCTGCCCCACCCCATGCAGATGAGTGCCCTG
GGGGGCTACTCCTCGGTGAGCAGCTGCAGTGGTTATGGCAGAATGGACCTTCTCCACCAG
GAGAGGCTTCCAAGTGACTTGGACGGCATGCTCACTGAGCCCTTGGACTGTGACATGGAA
ATCTTCATTTGGAATGACCTCATGGATGGAGACACGCTGGATTTTTTCAGGCAATGTTTTG
CCCAGCCAAAGCTCCTCACACAGTGTCAAGACAAGGACACATAGCTGCGTGTGAGGCTGA

Gene 385. >ENST00000328767 cDNA sequence

ATGCTGTGCAAAGAGAAAGGGATCACCGTGCTGGGTTGGAACGTGGTGTGTTGACATCTTG
GTGAGAGGCAAATTCATGTTCTGGAAATTGTCCAGAAGGTACCAATAAGGACAAGTCA
AGAGAATCTTGGCATGCTCAGGAACCGGGACTCCTCTTCAGAATGACCCTGCTCGCCTCC
GGAGGGGCTGGGATGCTCTCCGTGCGCTGGAGGATCATAGGCCCGGGCCCGCCGGCCTTC
ACCGAGGAGGACAACCTGGGCCTCCTTTGCTGACCGCGTGCTGGCGAGGGCCATAAACGAC
AATTACTCCTATTTCATTGAATGCCTGGCTGCTGCTGCTGCGTCCCTGGTGGCTGTGTTTT
GATTGGTCACTGGGCTGCAGCCCCCTCATGAAGTCCCTCAGCGACTGGAGGGTAACTGCA
TTTGACGCGCTCTGGTTCCGCCCAGTTGGCCTCATACGCCAAGCCCTGTGCTCTGCAGAC
GGCCACCAGAGAAGGATCCTTACTCTGCGCCTGGGATTGCTCGTTATCCCGTTTTCTCCCC
GCAAGTAACCTGTTCTTCCGAGCGGGCTTCGTGGTCCCAGCGTGGGGTGCTGTGTGATG
CTGCTTTTTTGGATTTCGAGCCTGCAAAACACACCGAGAAAAAGAAGCTCATCGCTGCCGTG
GTGCTGGGAATCCTACTCGATGCTGAGAGGCTGAGATGCGCGGTGCGCGGCGGCGAGTGG
CGGAGCGAGGCGGTTTTTCAGAGGCGCTGTGTCTGTGTGTCCCCTCAGTGCTGAGGTTTCGC
TGCAACATCGGCAGAAACCTGGCTGCTAAAGGCAACCAGACGGGCGCCATCAGATACCAC
CGGGAAGCTGTAAGCTTAAATCCCAAGTATGTTTCATGCCGTGAATAATCTTGCAAATGTC
TTAAAAGAAAGGAATGAGCTACAGGAAGCTGAGGAGCTGCTGTCTTTGGCTGTTCAAATG
CAGCCAGACTTTGCTGCTGCGTGGATGAGTCTAGGCATAGCGCGGAGCAGCCTGAAACGC
TTTGAAACCGCCAAGCAAAGTTACCCGACGGCGAGTAAAGAAGGAAATACCCAGACCGT
TACTACAGCCTCCGGCGTCTGCTG

Gene 386. >ENST00000328275 cDNA sequence

ATGGAGACGTGGGTGAACCAGTCCTACACAGATGGCTTCTTCCTCTTAGGCATCTTCTCC
CACAGTACTGCTGACCTTGTCTCTTCTCCGTGGTTATGGCGGTCTTCACAGTGGCCCTC
TGTGGGAATGTCCTCCTCATCTTCTCATCTACATGGACCCTCACCTTCACACCCCCATG
TACTTCTTCTCAGCCAGCTCTCCCTCATGGACCTCATGTTGGTCTGTACCAATGTGCCA
AAGATGGCAGCCAACCTTCTGTCTGGCAGGAAGTCCATCTCCTTTGTGGGCTGTGGCATA
CAAATTGGCCTCTTTGTCTGTCTTGTGGGATCTGAGGGGCTCTTGCTGGGACTCATGGCT

FIGURE 1 (CONT'D)

TATGACCGCTATGTGGCCATTAGCCACCCACTTCACTATCCCATCCTCATGAATCAGAGG
GTCTGTCTCCAGATTACTGGGAGCTCCTGGGCCTTTGGGATAATCGATGGCTTGATCCAG
ATGGTGGTAGTAATGAATTTCCCTACTGTGGCTTGAGGAAGGTGAACCATTCTTCTGT
GAGATGCTATCCTTGTTGAAGCTGGCCTGTGTAGACACATCCCTGTTTGAGAAGGTGATA
TTTGCTTGCTGTGTCTTCATGCTTCTCTTCCATTCTCCATCATCGTGGCCTCCTATGCT
CACATTCTAGGGACTGTGCTGCAAATGCACTCTGCTCAGGCCTGGAAAAGGCCCTGGCC
ACCTGCTCCTCCACCTGACAGCTGTCAACCTCTTCTATGGGGCAGCCATGTTTCATCTAC
CTGAGGCCTAGGCACTACCGGGCCCCAGCCATGACAAGGTGGCCTCTATCTTCTACACG
GTCCTTACTCCCATGCTCAACCCCTCATTTACAGCTTGAGGAACAGGGAGGTGATGGGG
GCACTGAGGAAGGGGCTGGACCGCTGCAGGATCGGCAGCCAGCACTGA

Gene 387. >ENST00000297416 cDNA sequence

ACAGGGAAAAAGCAACAAGAAGGAAGAGCAATGGCGACACTGGATCGCAAAGTGCCAGT
CCGGAGGCGTTTTCTGGGCAAACCTGGTCCTCTGGATCGACGCCGCAAATTACACTGC
TCCGACAATGTAGATTTAGAAGAGGCTGGAAAAGAGGGTGGAAAAGCAGGGAGGTTATG
AGGCTTAATAAAGAAGATATGCACTTATTTGGCCATTACCCAGCAATGACGACTTCTAT
CTCGTAGTGTGCAGTGCCTGTAACCAGGTGCTCAAGCCACAGGTTTTTCAGTCGCACTGC
GAGAGAAGACACGGTTCAATGTGTAGACCTTCTCCCTCTCCAGTGTCTCCAGCCTCCAAT
CCCAGGACATCACTAGTACAGGTGAAAAAAGCCTGTCTCAGCGGCCATCACTCTGCC
AGCAGCACCTCAAAGCCATTCAAAACGCCCAAAGACAATCTACTTACCTCCAGCAGCAAA
CAGCACACAGTCTTTCTGCGAAAGGATCAAGGGATAAACCATGTGTTCCAGTTCCTGTA
GTCAGTTTAGAGAAAATTCCTAACCTAGTGAAGGCAGATGGTGCCAATGTCAAATGAAC
TCCACAACCACTACTGCAGTTTTCTGCCTCCTCCACCTCGTCCTCTGCCGTCTCCACCCCT
CCTTTAATTAAGCCTGTCTGATGTCGAAGTCAGTGCCACCTTCACCAGAGAAGATCTTA
AATGGCAAAGGAATTCTGCCAACACCATAGACAAGAAACACCAAATGGCACCAAAAAC
AGCAACAAGCCTTACAGGAGACTTTCAGAGAGAGAATTTGACCCAAATAAACACTGTGGA
GTATTGGATCCCAGACAAAGAAACCTTGCACAAGATCCCTCACCTGCAAGACACATTCTG
CTAAGCCATCGGAGGGCAGTCCCAGGCCGGAAAAAGCAATTTGACCTCCTCCTGGCAGAA
CACAAAGCAAAGTCCCGGGAAAAAGAAGTTAAAGATAAAGAGCATCTCCTGACTTCACG
AGGGAAATACTTCCAAAGCCAATCCGGGCCGGCACAGGATTCTCTGCTAGGGTCTTCAGGG
AGCTCTGGGCCAGAACCAAAGTTGCATCCCTTGCAAATCCAGACCACCCAACTCTGTA
CTTCCTAGACCATCATCTGCAAATAGCATAAGCAGCAGCACATCTTCAAATCATAGCGGC
CACACTCCAGAGCCCCCACTCCACCGGTTGGAGGTGACCTCGCCAGCCGACTGTCCAGT
GATGAAGGGGAGATGGACGGAGCCGACGAATCCGAGAAGCTAGACTGTGAGTTCTCCACG
CACCACCCAGACCTCTGGCGTTTTTGCTCATTTGGGAGTCGCCTCATGGGACGAGGGTAC
TATGTGTTTGATAGAAGATGGGATCGTTTTTCGATTTCGCACTAAACTCCATGGTAGAAAAA
CACCTGAATTCACAGATGTGGAAGAAGATCCCTCCTGCGGCAGATAGCCCCCTGCCCTCG
CCAGCAGCCACATCACCACCCCGTTCCAGCATCCGTTTTGCGAGCCTTTTCAGCAACCCC
AGTGTCTGTGTATCTTCTTCAGCTCCCATCAGCTCGAGGCTCACCTCTTCTTACATAATG
ACATCAGCCATGCTCTCAAACGCAGCTTTTCGTGACATCGCCGGACCCGAGCGCCCTCATG
TCCCACACCACAGCTTTCCCTCATGTGGCCGCAACCTCAGCATCATGGACTCAACCTTC
AAGGCCCATCCGCCGTGTCCCGGATACCAGCCGTATCCCTTCCCATCCCACAAGCCA
TCCAAAACCAAACAGCAAATCCTCAAAAGTCAAAGACCTGTCCACCCGTAGCGACGAG
TCTCCAAGTAACAAAAAAGGAAGCCACAGTCTTCGACTTCCTCCTCCTCCTCCTCCTCC
TCCTCTTCTTGCAGACATCCCTCTCGTCTCCACTGTGAGGCCTCACAAAAAGAACTGT
GTTTTGAATGCCAGTTCTGCTTTGAACTCCTATCAGGCGGCCCTCCCTATAACAGCCTG
TCTGTGCACAACTCAAACAATGGGGTGAGCCCACTCAGTGCCAACTGGAGCCCTCAGGA
CGGACCTCGCTGCCCGGGCGGCCCGCGGACATAGTGAGACAGGTGGGCGCGGTGGGAGGC
AGCAGTGACTCCTGTCCCCTCTCTGTGCCCTCCCTTGCGCTCCACGCAGGGGACCTCTCT
CTGGCCTCACACAATGCTGTGTCTTCTCTGCCCCCTCTCTTTTGACAAATCAGAAGGAAAA
AAGCGTAAGAACTCGAGTTCTAGTAGCAAAGCCTGTAAATCACTAAAATGCCTGGTATG
AATAGCGTTACAAAAAGAACCCGCCAGCCTTCTCGCACCGGTGCCCGATCCCGTTAAC
AGCACCTCCTCTCGGCAGGTTGGGAAAAATAGCAGCCTAGCTTTGTCACAATCCAGTCCT
TCAAGTATATCCAGCCCAGGACACAGCCGACAGAAGAACAAAAAGAACGGGCAGGATA
AGGACTCTTCCATAA

FIGURE 1 (CONT'D)

Gene 388. >ENST00000275664 cDNA sequence

```
CCATCATCTGCAAATAGCATAAGCAGCAGCACATCTTCAAATCATAGCGGCCCACTCCA
GAGCCCCCACTCCACCGGTTGGAGGTGACCTCGCCAGCCGACTGTCCAGTGATGAAGGG
GAGATGGACGGAGCCGACGAATCCGAGAAGCTAGACTGTCAGTTCTCCACGCACCAACCC
AGACCTCTGGCGTTTTGCTCATTTGGGAGTCGCCTCATGGGACGAGGGTACTATGTGTTT
GATAGAAGATGGGATCGTTTTGATTGCACTAAACTCCATGGTAGAAAAACACCTGAAT
TCACAGATGTGGAAGCACAGAAACCCGAGCCACAGGGCATCAGGTCCCTCCCCCTGTTC
AGGACTTGCCCTAACCAATCTGCTGTCACTGAGCAACATTGGGGCTGCCTGGGTGTCAACT
CTGGAGAGCGTAGCACCCCGCTACCTCTCAACCTCGCTGCCCAAACCCAGGCCCCGGC
GGGCCCCGAACCTGGAGGGATGGCAGCCGATGGGGGCGTGGAAGACATTAGGAAGAAAAGG
AACGGCCAAGACTCTTTTTCTTTAACAAGCATTAACTCTGCATCAGGAGCCGCCAACA
CAGTATTCTCTTTCAGCCAGGAAGATCCCTCCTGCGGCAGATAGCCCCCTGCCCTGCCA
GCAGCCCATCAACACCCCGTTCCAGCATCCGTTTTGCAGCCTTTCAGCAACCCAGT
GCTGTGTATCTTCTTTCAGCTCCCATCAGCTCGAGGCTCACTCTTCTTACATAATGACA
TCAGCCATGCTCTCAAACGCAGCTTTCTGTGACATCGCCGGACCCGAGCGCCCTCATGTCC
CACACCACAGCTTTCCCTCATGTGGCCGCAACCTCAGCATCATGGAATCAACCTTCAAG
GCCCCATCCGCGGTGTCCCCGATACCAGCCGTCACTCCCTTCCCCATCCACAAGCCATCC
AAAACCAAAACCAGCAAATCCTCAAAGTCAAAGACCTGTCCACCCGTAGCGACGAGTCT
CCAAGTAACAAAAAAGGAAGCCACAGTCTTCTGACTTCTCTCTCTCTCTCTCTCTCTCT
TCTTCTTGCAGACATCCCTCTCGTCTCCACTGTGAGGGCTCAAAAAAGAACTGTGTT
TTGAATGCCAGTTCTGCTTTGAACTCCTATCAGGCGGCCCTCCCTATAACAGCCTGTCT
GTGCACAACTCAAACAATGGGGTGAGCCCACTCAGTGCCAACTGGAGCCCTCAGGACGG
ACCTCGCTGCCCCGGCGGCCCGCGGACATAGTGAGACAGGTGGGCGCGGTGGGAGGCAGC
AGTGACTCCTGTCCCCTCTCTGTGCCCTCCCTTGCGCTCCACGCAGGGGACCTCTCTCTG
GCCTCACACAATGCTGTGTCTTCTCTGCCCCCTCTCTTTTGACAAATCAGAAGGAAAAAAG
CGTAAGAACTCGAGTTCTAGTAGCAAAGCCTGTAAAATCACTAAAATGCCTGGTATGAAT
AGCGTTTCAAAAAAGAACCCGCCAGCCTTCTCGCACCGGTGCCCGATCCCGTTAACAGC
ACCTCCTCTCGGCAGGTAAGGGACCTCCTGGCACCGCCTTACCAGGCTCTGGGGGGCAGG
GGGAGCTGGGCAGCGCCCCCTGCTTAGCCGGGCGGCTCCGACAGGTAACACAAGCTTGATT
CCTGTTCTCGTTTTTCCCCGAAGGCAGTTTTTCAACCTCTGCTTTGAGAGCACTTTACTGAA
CAAGTACTTGATAACACGCTCACTATGTGCTAGACACTGTTCTCGGCACCTTACGGTTAT
TACCTCACTGAGTCCTCACGACACCCAGTGACAGTGAGTGAGTTATCACTTTACAGATG
AGTAACTGAGGCACAGAGAGATTCTGAGTTCCCCACTCCACATCGGTGAGTTTTATCTT
TTGAGGTTCTGAGAACATTGTCAATTAAGAGTTCTGTTGCT
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Gene 389. >ENST00000318724 cDNA sequence

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ACTCAATGTCCGAACGTTCCGAAGATGACGTCCGAGCGTTCTCGAATCCCGTGTCTCTCG
GCTGCTGCTGCCGAAGGAACAGGGAAAAAGCAACAAGAAGGAAGAGCAATGGCGACACTG
GATCGCAAAGTGCCAGTCCGGAGGCGTTTTCTGGGCAAACCTGGTCCTCCTGGATCGAC
GCCGCCAAATTACACTGCTCCGACAATGTAGATTTAGAAGAGGCTGGAAAAGAGGGTGGA
AAAAGCAGGGAGGTTATGAGGCTTAATAAAGAAGATATGCACTTATTTGGCCATTACCCA
GCACATGACGACTTCTATCTCGTAGTGTGCACTGCTGTAAACAGGTCGTCAAGCCACAG
GTTTTCCAGTCGCACTGCGGGAGAAAGCAAGACAACAGGAGAAATGAAGGCATCTCCAGG
AGTGGAACAGAGAGCAGCCAAGCCATAGAGAAGCATCAGGTGTGAGAATGGAAAACGCAG
AAGAGACGTACAACTTCTGAAAGATCTCAGAGGACTGGCATTGTCTGGAGACGGCTTCTT
GGAAGAGGAGACTCCAGCAGAGCCCTGAAGTGTGGACAAGCTTCCATTCACTGCAAATTC
GTGAGCACACTCTGGTGTGAGGATCTAGTAAGGAAATGGGCTTGAGCAGAGCAGGGGGTA
CCTGTGGGGTTCTTCTCTTCACTTTTCAACCAACCAAAGCTGGTCTAAGCTGCCATCAATT
CCCACCTGGACAACTGCAAAAGCCTTCCAGCTGTTTCTGCTTCCACTCTTGCTCCTCTAC
AATTCACTCTGCACGCAGAAGTCAGAATCAAAATCAAAGTTCATCATGTCACTTCTTGA
CTTGTGGCTTCCCTTTGCTCTTAAGCTAAAAGTAAAAATCATTATCATGGCTACAAAGTC
TTGTGTGGTCTGGGCCACATCCTGTGCCAGGCTCCCTTTCATTGTCTATATTCCAGTCAA
GCTGGCCTTCAAAATTTGAGCAGATTGGGTCTTTCTGCCACAGGCCCTTGACATACATG
CTTTTCCCTCTGTACATGTGATTTTCTTTCATCCCCGCTTTCAAAGCTAACTCTGACTC
ATCCTTCAGACTGCATCTTAATGATTACTTCTTCTGGAAGACTCCCTAATTTTACAAA
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FIGURE 1 (CONT'D)

CTAGATGAGCTCTCCCTTATATGTTGAAAAAAGTATTTCTTGTGTGAACAGAAATGTTT
AATGTCTGCCTTCCCAACTCAGCCACAAGCTCTGTGAGGATGGGGACTCAGTCTTTCAT
CCCTCAGAGCCTAACATAGTCTCAGTTAATACGTGATAGCTGGAGCGTGACATTTTATTA
GGAACAGTGAGGCTAGTTGAGAAATTATACCTCACCAGTATATAGGAGAGTACCATTAGG
AATTCCTTAATGGGATGAAAACCTGAATTCATGTCTAGACCCTGCCACCTGCTGGCTGTGC
TGTTTTAAATAAATTGCAGATCCTCTC

Gene 390. >ENST00000311117 cDNA sequence

CGCCGCCATTTTCCAGAGCGAGAGGCAGTGACACTGAGCGGGCGCAGGGGGCCGAGTCG
GAGACCGTGCCGGAGTTCCGGGAGCGGCAACAGAGTGGGCATAGACACTCCGAGCAGCCTC
GCCGTGCTCTCTGCGTTTCTGTTGACTGCCTGGCTGCCCCCTCCCTACTCCTCGGTTCC
TGGTGAAGAGGCTGCGCGCTGCTGTTTGGGGAGGGGGTGTGTGGAGCCGGGTCTGTGTGTC
CGCAGTGGCTGCTGTGCGGGGGTGCCTGTTTCCGGAGGTGCGGAGAGACTCCTTGGGGG
TCGAGCACATAACGGGGTTCCGGGTGTCTCGTGTGTGAACATCACAGGTCTATTCTGGATA
AGCAGGTTTTGTGAAGACATTTATTCTTTCTTGGACCTCAGATTTACCAGACATCTCATG
GGTTTGTGGATGCACCTTAGATGTTTGCAATGAGCACTGTGGCTGGCATGCCCCAGTGTTT
TGGATACCAATGCATAGGACTCCATAGTAATCGAATTTACCAGAGGCGAACGTCATGAGC
ATAGTGATCCCATTTGGGGGTTGATACAGCAGAGACGTCATACTTGGAAATGGCTGCAGGT
TCAGAACCAGAAATCCGTAGAAGCTAGCCCTGTGGTAGTTGAGAAATCCAACAGTTATCCC
CACCAGTTATATACCAGCAGCTCACATCATTACACAGTTACATTGGTTTTGCCCTATGCG
GACCATAATTATGGTGCTCGTCTCCTCCGACACCTCCGGCTTCCCTCCTCCATCAGTC
CTTATTAGCAAAAATGAAGTAGGCATATTTACCACTCCTAATTTTGTATGAAACTTCCAGT
GCTACTACAATCAGCACATCTGAGGATGGAAAGTTATGGTACTGATGTAACCAGGTGCATA
TGTGGTTTTTACATGATGATGGATACATGATCTGTTGTGACAAATGCAGCGTTTGGCAA
CATATTGACTGCATGGGGATTGATAGGCAGCATATTCCTGATACATATCTATGTGAACGT
TGTGAGCTTAGGAATTTGGATAAAGAGAGGGCAGTGCTACTACAACGCCGGAAGGGAA
AATATGTCAGATGGTGATACCAGTGCAACTGAGAGTGGTGATGAGGTTCTGTGGAATTA
TATACTGCATTTTCAGCATACTCCAACATCAATTACTTTAACTGCTTCAAGAGTTTCCAAA
GTTAATGATAAAGAAGGAAAAAAGCGGGGAGAAAGAACACACATTTCAAAATGTAAA
AAGGCATTTTCGTGAAGGATCTAGGAAGTCATCAAGAGTTAAGGGTTTCAGCTCCAGAGATT
GATCCTTCATCTGATGGTTCAAATTTTGGATGGGAGACAAAGATCAAAGCATGGATGGAT
CGATATGAAGAAGCAAATAACAACCAAGTACAGTGAGGGTGTTTCAGAGGGAGGCACAAAGA
ATAGCTCTGAGATTAGGCAATGGAAATGACAAAAAGAGATGAATAAATCCGATTTGAAT
ACCAACAATTTGCTCTTCAAACCTCCTGTAGAGAGCCATATACAAAAGAATAAGAAAATT
CTTAAATCTGCAAAAGATTTGCCTCCTGATGCACTTATCATTGAATACAGAGGGAAGTTT
ATGCTGAGAGAAAGTTTGAAGCAAATGGGTATTTCTTTAAAGACCATACCTTTTGTG
TTATTCTACTCTAAATTTTATGGGCTAGAAATGTGTGTTGATGCAAGGACTTTTGGGAAT
GAGGCTCGATTTCATCAGGCGGTCTTGTACACCCAATGCAGAGGTGAGGCATGAAATTCAA
GATGGAACCATACATCTTTATATTTATTCTATACACAGTATTCCAAAGGGAACTGAAATT
ACTATTGCCTTTGATTTTGAATATGGAATTTGTAAGTACAAGGTGGACTGTGCATGCCTC
AAAGAAAACCCAGAGTGCCCTGTTCTAAAACGTAGTTCTGAATCATGGAAAATATCAAT
AGTGGTTATGAGACCAGACGGAAAAAAGGAAAAAAGACAAAGATATTTCAAAAGAAAAA
GATACACAAAATCAGAATATTACTTTGGATTGTGAAGGAACGACCAACAAAATGAAGAGC
CCAGAAACTAAACAAAGAAAGCTTTCTCACTGAGACTATCAGTATCAAATAATCAGGAA
CCAGATTTTATTGATGATATAGAAGAAAAAACTCCTATTAGTAATGAAGTAGAAATGGAA
TCAGAGGAGCAGATTGCAGAAAGGAAAGGAAGATGACAAGAGAAAGAAAGAAAAATGGAA
GCAATTTTGAAGCTTTTGCCAGACTTGAAAAGAGAGAGAAAGAAAGAGAAACAAGCTTTG
GAAAGGATCAGCACAGCCAAAACCTGAAGTTAAAACCTGAATGTAAAGATACACAGATTGTC
AGTGATGCTGAAGTTATTTCAGGAACAAGCAAAAGAAAGAAATGCTAGCAAGCCAACCCCT
GCCAAAGTAAATAGAACTAAACAGAGAAAAAGTTTCTCGGAGTAGGACTCACATTGGA
CAGCAGCGTCGGAGACACAGAACTGTGAGCATGTGTTTCAGATATCCAGCCATCTTCTCCT
GATATAGAAGTTACTTCACAACAAAATGATATTGAAAATACTGTACTTACAATAGAAACA
GAAACTGAACTGCACTAGCAGAAATAATTAAGTAACTGAACTGAAGTTCCAGCACTTAATAAA
TGTCTTACCAAGTACCCCAAAAACAAAGAAGCACTTGGTTAATGAATGGTTAAGTGAGAAG
AATGAGAAGACAGGAAAACCTTCAGATGGCCTTTTCAGAAAGGCCTCTACGCATAACTACA

FIGURE 1 (CONT'D)

GATCCTGAAGTGTTAGCTACACAACTCAATTCTTTACCAGGTCTCACTTACAGCCCCCAT
GTATACTCCA CT CCTAAGCATTATATTAGATTTACTTCACCATTCTTTT CAGAAAAAAGG
AGAAGAAAAGAACCTACTGAAAACATTTCTGGTTCATGCAAGAAGCGATGGTTGAAACAA
GCTCTGGAAGAAGAAAATT CAGCAATTTTACATAGATTTAATTCA CCTGTCAAGAAAGA
TCCAGAAGTCCTGCAGTCAATGGTGAAAATAAAAGTCCACTACTATTAAATGACAGCTGT
TCCCTTCCAGATTTAACTACA CCACTAAAAAAACGAAGATTTTATCAGTTGCTAGATTG
GTTTACTCAGAAACCTCCACA CCTACTCCTTCCCCGTATGCTACACCAACTCACACCGAT
ATTACTCCTATGGACCCATCTTTTGCCA CGCCTCCACGGATAAAATCAGATGATGAAACT
TG TAGAAATGGTTATAAA CCAATATATT CACCAGTTACCCAGTAACTCCTGGTACACCA
GGAAATACCATGCACTTTGAGAATATTTCTTCCCAGAAAGTTCTCCAGAAATAAAGAGA
CGCACTTATAGTCAAGAGGGATATGACAGATCTTCAACCATGTTAA CATTGGGGCCTTTT
AGAAATTCTAATTTAACTGAACTGGGTCTGCAAGAAATAAAGACTATTGGTTATACGAGC
CCTAGGAGTAGGACTGAAGTCAACAGGCAGTGTCTGGAGAAAAGGAA CCGTGTGT CAGAC
CTTCAGCTAGGACTCGATGCAGTTGAGCCAACTGCCCTACATAAAAA CCTGGAAA CGCCT
GCACATGACAGGGCTGAGCCCAACAGCCAACTGGACTCGACTCACTCTGGACGGGGCACA
ATGTATTCTTCCTGGGTAAAGAGCCCTGACAGAACAGGAGTTAACTTCTCAGTGAACCTCC
AAGTTGAGGGACCTGACACCCTCGCATCAGTTGGAGGTTGGAGGAGGCTTCCGAATAAGT
GAGTCAAAGTGCCTGATGCAGGATGATACTAGAGGCATGTTTATGGAAACAACTGTGTTT
TGTACTTCCGAAGATGGGCTTGATCTGGTTTTCGGACGGACTGTTAATGACAATTTGATC
GACGGGAATTGCACACCCAGAATCCACCAAAAAGAAAAGTTTTCTCTATTAGAATAC
CGTAAGAGACAACGTGAAGCTAGGAAAAGTGGCTCTAAGACAGAGAACTTTCCACTCATT
AGTGTATCACCCATGCAAGTGGAAGCTTGAGCAACAATGGTGATGGCTGTGCCAGCAGT
AATGACAATGGGGAGCAGGTGGACCACTGCTAGCCTACCTTTACCAACACCAGCTACA
GTTTATAATGCCACTTCTGAAGAACTAGCAATAACTGCCCTGTTAAGGATGCTACTGCT
AGTGAGAAGAATGAACCAGAAGTTCAATGGACTGCCTCAACTTCAGTGGAACAAGTCAGA
GAAAGGAGTTATCAGAGAGCTTTACTTCTCAGTGATCACCGAAAAGATAAAGATAGTGGG
GGAGAATCACCATGTGTCTCATGTTACCGAGTCATGTTCAGTCTTCACTTCATCTCAT
TCAAATCACATACCCAGTTGCAAGCTAAGGGCCAGTCCCTTCTTTT CAGTGAACCTTATG
GAAGACCCTGATCCTGAAAATCCAGAACCCACAACCTACGAATGAATGTCCATCCCCAGAT
ACTTCTCAAATACTTGTAAAAGTCCTCCAAAAATGAGCAAGCCTGGTTACCTGGATCT
GTAATTCCTGCTCAAGCACACGGGAAAATATTCAAAAACCAAGATCCCAATGGGACTCC
ACAGTTAGTGATCCGAAGCTGAAAATGGTGTTACCTAAAAACAGAGCTCCAACAAAAA
CAGCTATCAAATAACAACCAAGCACTTTCAAAGAATCATCCTCCTCAGACACACGTTTCGT
AATTCATCTGAGCAACTTTTCAAAAAGCTGCCTTCTGTGCCAACAAAGTTGCACTGTCTCT
CCATCACCTCACCTAGAAAATCCTCCAAAGTCATCCACGCCTCACACACCTGTACAGCAT
GGTTATCTTTTCAACAAAGCCTCCTTACAGCAGTTAGGATCTCCCTACAGGCCTCATCAT
TCACAGTCACCTCAAGTTGGAACACCTCAGCGAGAGCCTCAAAGAAA CTTTTATCCAGCA
GCACAGAACCTTCCAGCCAATACTCAGCAGGCAACTTCTGGAACATTATTTACACAGACA
CCCTCAGGACAATCTTCAGCAACATACAGTCAGTTTAA CCAACAAAGTCTGAACAGCACG
GCA CCA CCCCTCCACCTCCTCCACCTCCTTCTTCGTCTTACTATCAAAAACAGCAGCCC
TCTGCAAACTTT CAGAATTATAATCAGCTCAAAGGTAGTCTTTCTCAACAAACTGTGTTT
ACATCAGGACCAAATCAAGCACTTCTGGCA CCA CAAGCCAGCAAACAGTTCCAGGACAC
CACGTGACTCCAGGGCATTTTTTTGCCCTCTCAGAACCTACCATTCA CCACTCAAACCTGCT
GCTGCCGTAGTCCCCCTCCTCCTCCACCA CCACTGCTCCAGGACCGCACCTTGTACAA
CAGCCGAATTTCCCATCAGCAACACTCTGTAGCACATGTAGTAGGGCCTGTTTCATGCGGTC
ACCCCTGGGTGCGATATTCATTCTCAAACCTGCTGGACACCACTTACCCCCACCCCCACCC
CCTCCTGGTCTGCCCCCTCATCACCATCCACCA CCCCCTCCATCCACAGGACTCCAAGGT
CTACAAGCACAAACACAGCATGTTGTAAATT CAGCACCCCCACCA CCCCCTCCGCGCCA
CCTTCCAGTGTTTTTGGCTTCTGGGCATCATA CCAATCAGCTCAAGCCTTACACCA CCA
CCTCATCAAGGACCTCCACTTTTTCTTCGAGTGCTCATCCAACCTGTACACCGTATCCC
TCACAAGCTACACATCATA CCACTTTGGGACCGGGACCCAGCA CCAAGCCTTCTGGAACA
GGGCCACATTGTCCATTACCTGT CACAGGTCTCATCTCCAGCCCCAAGGACCAAACAGT
ATTCAAACACCTACTGCTTCAGGGTTCTGTCTCATCCTGGCTCTGTGGCCCTGCCACAT
GGGGTTCAAGGACCTCAGCAGGCATCTCCAGTGCCTGGACAGATTCCAATTCACAGAGCA

FIGURE 1 (CONT'D)

CAGGTGCCACCAACATTTTCAAAACAATTACCATGGGTGAGGTGGCATTAAAATGGACTC
 CAAAAACATTTTTTTTAAATGTTCTGTAAGATAAACTGTATATTTTATATGTACCTGTAA
 GGTACTTTTTTAAAGCTTGATCATGAACCTTTGTATAAAAAACACCAGTGTCTTTCTGTTG
 TATTTTTCTCATTTTTGCTTTTTTAAATTCCTTTAAAAAATGTGCTGTTAAGCCAGTATT
 AGGTATCTTTATTTTGTAAAGTGAACATTCCAGCTGTTTTTTTTCTGGCAGATCTGATGCTG
 ATTTGATGCTGTATGATCTTTTTTTTTTTTTTAGTTAAATTCATTTAGTGAATGTTCTAT
 TATTTTATACATACACATTAAAGTACTCAGCTAAGTAATGGCACTATGAGGATTTTTTTTTT
 TCTTTCCTGTGAGCAGCAGTTCTGTGAATGCATCTTAGGTATAAAAAATGCAATACAGATT
 TTTATATTTTTGGTGTGGACATGGCTCATTTTGTTTTACCAGTTATTTGCAAGCAAAATGT
 AATTTAATGTATAGATGATTTCTAATGTCTCCTGACAACTGTAAATACTGCATTTCTTT
 TGGCTATATAAATTGCTTACAGCTTTTCTCATTTGATATATAGCATTGTACATATGACAAG
 TCTTTTGCAAACTGTGTGATCTTTGTGAAAGTAGTACAGTATATGACCTTTAATTTCTT
 TTTTATTTTAAATATACTGTCACTGAAGCACTGGTTGGGCATTTTAATTATGTTAAT
 AAATCACAATTATGTGAGTTTTTACCAGATTGTCCTGTACAACCTTCTAAGATCGGGATCTG
 TGTGTTTTCTACAGAAGTTCTAGTTTTTCAAATATAGATTGTAAGGAGCCTTCAATTTTCTT
 TAGCGACTACTACCTCAGCAACAGGAGGCAGCAAGGGGCTGTTCTGTGGTGGTTTTCTGT
 TTGCATTTTTTGCAAGGAGCCATAGGAACTACTGAAATGATTGTGCTGGGTAAATTAAGGA
 TCTGGCATCATACAAAATGAAGCCAGACCACTAATGCATTACAGTAGTTCTTGAATACA
 Gene 391. >ENST00000333597 cDNA sequence
 ATGAGCATAGTGATCCCATTTGGGGGTTGATACAGCAGAGACGTCATACTTGGAAATGGCT
 GCAGGTTTCAAGAACAGAAATCCGTAGAAGCTAGCCCTGTGGTAGTTGAGAAATCCAACAGT
 TATCCCCACCAGTTATATACAGCAGCTCACATCATTACACAGTTACATTGGTTTGCCC
 TATGCGGACCATAATTATGGTGTCTGTCCTCCTCCGACACCTCCGGCTTCCCCTCCTCCA
 TCAGTCTTTATTAGCAAAAATGAAGTAGGCATATTTACCACTCCTAATTTTATGAAACT
 TCCAGTGCTACTACAATCAGCAATCTGAGGATGGAAGTTATGGTACTGATGTAAACAGG
 TGCATATGTGGTTTTTACACATGATGATGGATACATGATCTGTTGTGACAAATGCAGCGTT
 TGGCAACATATTGACTGCATGGGGATTGATAGGCAGCATATTCTGATACATATCTATGT
 GAACGTTGTGAGCCTAGGAATTTGGATAAAGAGAGGGCAGTGCTACTACAACGCCGGAAA
 AGGGAAAATATGTGAGATGGTGATACAGTGCAACTGAGAGTGGTGATGAGGTTCTGTG
 GAATTATATACTGCATTTTCAACATCAATTACTTTAACTGCTTCAAGAGTT
 TCCAAAGTTAATGATAAAGAAGGAAAAAAGCGGGGAGAAAGAACACATTTCAAAA
 TGTAAAAAGGCATTTTCTGTAAGGATCTAGGAAGTCATCAAGAGTTTAGGGTTTCAAGCTCCA
 GAGATTGATCCTTCATCTGATGGTTTCAAATTTTGGATGGGAGACAAAGATCAAAGCATGG
 ATGGATCGATATGAAGAAGCAAATAACAACAGTACAGTGAGGGTGTTTCAAGGGGAGGCA
 CAAAGAATAGCTCTGAGATTAGGCAATGGAATGACAAAAAGAGATGAATAAATCCGAT
 TTGAATACCAACAATTTGCTCTTCAAACCTCCTGTAGAGAGCCATATACAAAAGAATAAG
 AAAATTTCTTAAATCTGCAAAAGATTTGCCTCCTGATGCACTTATCATTGAATACAGAGGG
 AAGTTTATGCTGAGAGAACAGTTTGAAGCAAATGGGTATTTCTTTAAAGACCATACCCT
 TTTGTGTTATTCTACTCTAAATTTTATGAGGCTAGAAATGTGTGTTGATGCAAGGACTTTT
 GGGAATGAGGCTCGATTATCAGGCGGTCTTGTACACCAATGCAGAGGTGAGGCATGAA
 ATTCAAGATGGAACCATACATCTTTATATTTATTCTATACACAGTATTTCAAAGGGAACT
 GAAATTACTATTGCCTTTGATTTTGAATATGGAATTTGTAAGTACAAGGTGGACTGTGCA
 TGCCCTCAAAGAAAACCCAGAGTGCCCTGTTCTAAAACGTAGTTCTGAATCCATGGAAAAT
 ATCAATAGTGGTTATGAGACCAGACGGAAAAAAGGAAAAAAGACAAGAGAAGAAAGAAAA
 ATGGAAGCAATTTTGCAAGCTTTTGCCAGACTTGAAAAGAGAGAGAAAAGAGAAGACAA
 GCTTTGGAAAGGATCAGCACAGCCAAAACCTGAAGTTAAAACCTGAATGTAAAGATACACAG
 ATTGTGAGTATGCTGAAGTTATTGAGGAACAAGCAAAAGAAAGAAATGCTAGCAAGCCA
 ACCCCTGCCAAAGTAAATAGAACTAAAACAGAGAAAAAGTTTCTCGGAGTAGGACTCAC
 ATTGGACAGCAGCGTCGGAGACACAGAACTGTGAGCATGTGTTTCAAGATATCCAGCCATCT
 TCTCCTGATATAGAAGTTACTTCAACAACAAATGATATTGAAAATACTGTACTTACAATA
 GAACCAGAAAACCTGAACTGCACTAGCAGAAATAATTACTGAACTGAAGTTCCAGCACTT
 AATAAATGTCTACCAAGTACCCCAAAACAAAGAAGCACTTGGTTAATGAATGGTTAAGT
 GAGAAGAATGAGAAGACAGGAAAACCTTCAGATGGCCTTTTCAAGAGGCCTCTACGCATA
 ACTACAGATCCTGAAGTGTAGCTACACAACCTCAATTCTTTACCAGGTCTCACTTACAGC

FIGURE 1 (CONT'D)

CCCCATGTATACTCCACTCCTAAGCATTATATTAGATTTACTTCACCATTCTTTTTCAGAA
 AAAAGGAGAAGAAAAGAACCTACTGAAAACATTTCTGGTTCATGCAAGAAGCGATGGTTG
 AAACAAGCTCTGGAAGAAGAAAATTCAGCAATTTTACATAGATTTAATTACCCCTGTCAA
 GAAAGATCCAGAAGTCTGCAGTCAATGAATATTTCTTCCCAGAAAGTTCTCCAGAAAT
 AAAGAGACGCACTTATAGTCAAGAGGGATATGACAGATCTTCAACCATGTTAACATTGGG
 GCCTTTTAGAAATTCTAATTTAACTGAACTGGGTCTGCAAGAAATAAGACTATTGGTTA
 TACGAGCCCTAGGAGTAGGACTGAAGTCAACAGGCAGTGTCTGGAGAAAAGGAACCTGT
 GTCAGACCTTCAGCTAGGACTCGATGCAGTTGAGCCAACTGCCCTACATAAAAACCTGGA
 AACGCCTGCACATGACAGGGCTGAGCCCCAACAGCCAACTGGACTCGACTCACTCTGGACG
 GGGCACAATGTATTCTTCTGGGTAAAGAGCCCTGACAGAACAGGAGTTAACTTCTCAGT
 GAACTCCAACCTTGAGGGACCTGACACCCTCGCATCAGTTGGAGGTTGGAGGAGGCTTCCG
 AATAAGTGAGTCAAAGTGCCTGATGCAGGATGATACTAGAGGCATGTTTATGGAAACAAC
 TGTGTTTTGTACTTCCGAAGATGGGCTTGTATCTGGTTTCGGA CGGACTGTTAATGACAA
 TTTGATCGACGGGAATTGCACACCCCAGAATCCACCACAAAAGAAAAGGTTTCTCTATT
 AGAATACCGTAAGAGACAACGTGAAGCTAGGAAAAGTGGCTCTAAGACAGAGAACTTTCC
 ACTCATTAGTGTATCACCCCATGCAAGTGGAAGCTTGAGCAACAATGGTGATGGCTGTGC
 CAGCAGTAATGACAATGGGGAGCAGGTGGACCACACTGCTAGCCTACCTTTACCAACACC
 AGCTACAGTTTATAATGCCACTTCTGAAGAACTAGCAATAACTGCCCTGTTAAGGATGC
 TACTGCTAGTGAGAAGAATGAACCAGAAGTTCAATGGACTGCCTCAACTTCAGTGGAACA
 AGTCAGAGAAAGGAGTTATCAGAGAGCTTTACTTCTCAGTGATCACCGAAAAGATAAAGA
 TAGTGGGGGAGAATCACCATGTGTCTCATGTTACCGAGTCATGTTCACTTTCACCTTC
 ATCTCATTCAAATCACATACCCAGTTGCAAGCTAAGGGCCCAGTCCCTTCTTTTCACTGA
 ACTTATGGAAGACCCTGATCCTGAAAATCCAGAACCCACAACCTACGAATGAATGTCCATC
 CCCAGATACTTCTCAAATACTTGTAAAAGTCTCCAAAATGAGCAAGCCTGGTTTACC
 TGGATCTGTAATTCCTGCTCAAGCACACGGGAAAATATTCAAAAACAGATCCCAATG
 GGAATCCACAGTTAGTGCATCCGAAGCTGAAAATGGTGTTCACTAAAAACAGAGCTCCA
 AAAAAACAGCTATCAAATAACAACCAAGCACTTTCAAAGAATCATCCTCCTCAGACACA
 CGTTCGTAATTCATCTGAGCAACTTTCAAAAAGCTGCCTTCTGTGCCAACAAAGTTGCA
 CTGTCTCCATCACCTCACCTAGAAAATCCTCCAAAGTCATCCACGCCTCACACACCTGT
 ACAGCATGGTTATCTTTTACCAAAGCCTCCTTTCAGCAGTTAGGATCTCCCTACAGGCC
 TCATCATTACAGTCACCTCAAGTTGGAACACCTCAGCGAGAGCCTCAAAGAACTTTTA
 TCCAGCAGCACAGAACCTTCCAGCCAATACTCAGCAGGCAACTTCTGGAACATTATTTAC
 ACAGACACCTCAGGACAATCTTCAGCAACATACAGTCAGTTTAACCAACAAAGTCTGAA
 CAGCACGGCACCACCCCTCCACCTCCTCCACCTCCTTCTTCTGCTTTACTATCAAAACCA
 GCAGCCCTCTGCAAACTTTTCAAGATTATAATCAGCTCAAAGGTAGTCTTTCTCAACAAAC
 TGTGTTTACATCAGGACCAAATCAAGCACTTCTGGCACCACAAGCCAGCAAAACAGTTCC
 AGGACACCACGTGACTCCAGGGCATTCTTTTGGCCCTCTCAGAACCCTACCATTCACCATCA
 AACTGCTGCTGCCGTAGTCCCCCTCCTCCTCCACCACCACCTGCTCCAGGACCGCACCT
 TGTACAACAGCCGAATTCCTCATCAGCAACACTCTGTAGCACATGTAGTAGGGCCTGTTCA
 TGCGGTCACCCCTGGGTGCGATATTCTTCTCAAAGTCTGGACACCCTTACCCCCACC
 CCCACCCCTCCTGGTCTGCCCCCTCATCACCATCCACCACCCCATCCATCCACAGGACT
 CCAAGGTCTACAAGCACAAACACCAGCATGTTGTAAATTCAGCACCCCCACCACCCCTCC
 GCCGCCACCTTCCAGTGTTTTTGGCTTCTGGGCATCATACCACATCAGCTCAAGCCTTACA
 CCACCCACCTCATCAAGGACCTCCACTTTTTCTTCTGAGTGCTCATCCAAGTGTACCACC
 GTATCCCTCACAAGCTACACATCATACCACTTTGGGACCGGGACCCAGCACCAGCCTTC
 TGGAACAGGGCCACATTGTCCATTACCTGTACAGGTCTCATCTCCAGCCCCAAGGACC
 AAACAGTATTCCAAACACCTACTGCTTCAGGGTTCTGTCTCATCCTGGCTCTGTGGCCCT
 GCCACATGGGGTTCAAGGACCTCAGCAGGCATCTCCAGTGCCTGGACAGATTCCAATTCA
 CAGAGCACAGGTGCCACCAACATTTCAAAACAATTACCATGGGTGAGGTGGCATTAA
 Gene 392. >ENST0000257745 cDNA sequence
 AAGAGGCTGCGCGCTGCTGTTTTGGGGAGGGGTGTGTGGAGCCGGGTCTGTGTCCGCAG
 TGGCTGCTGTGCGGGGGTCTGCTGTTTCGCGAGGTGCGGAGAGACTCCTTGGGGGTCTGAG
 CACTGTGGCTGGCATGCCCAAGTGTGTTTGGATACCAATGCATAGGACTCCATAGTAATCG
 AATTTACCAGAGGCGAACGTCTGAGCATAGTGATCCATTGGGGGTGATACAGCAGAG

FIGURE 1 (CONT'D)

ACGTCATACTTGGAAATGGCTGCAGGTTTCTGAAACAGAAATCCGTAGAAGCTAGCCCTGTG
GTAGTTGAGAAATCCAACAGTTATCCCCACCAGTTATATACCAGCAGCTCACATCATTCA
CACAGTTACATTGGTTTGGCCTATGCGGACCATAATTATGGTGCTCGTCTCCTCCGACA
CCTCCGGCTTCCCCTCCTCCATCAGTCCTTATTAGCAAAAATGAAGTAGGCATATTTACC
ACTCCTAATTTTGTATGAACTTCCAGTGCTACTACAATCAGCACATCTGAGGATGGAAGT
TATGGTACTGATGTAACAGGTGCATATGTGGTTTACACATGATGATGGATACATGATC
TGTTGTGACAAATGCAGCGTTTGGCAACATATTGACTGCATGGGGATTGATAGGCAGCAT
ATTCCTGATACATATCTATGTGAACGTTGTGAGCCTAGGAATTTGGATAAAGAGAGGGCA
GTGCTACTACAACGCCGGAAAAGGGAAAATATGTCAGATGGTGATACCAGTGCAACTGAG
AGTGGTGATGAGGTTTCTGTGGAATTATATACTGCATTTTCAACATCAATT
ACTTTAACTGCTTCAAGAGTTTCCAAAGTTAATGATAAAAGAAGGAAAAAAGCGGGGAG
AAAGAACAAACATTTCAAATGTAAAAGGGTTTCAAGCTCCAGAGATTGATCCTTCATCT
GATGGTTCAAATTTTGGATGGGAGACAAAGATCAAAGCATGGATGGATCGATATGAAGAA
GCAAATAACAACAGTACAGTGAGGGTGTTCAGAGGGAGGCACAAAGAATAGCTCTGAGA
TTAGGCAATGGAAATGACAAAAAGAGATGAATAAATCCGATTTGAATACCAACAATTTG
CTCTTCAAACCTCCTGTAGAGAGCCATATACAAAAGAATAAGAAAATTCTTAAATCTGCA
AAAGATTTGCCTCCTGATGCACTTATCATTGAATACAGAGGGAAGTTTATGCTGAGAGAA
CAGTTTGAAGCAAATGGGTATTTCTTTAAAAGACCATACCTTTTGTGTTATTCTACTCT
AAATTTTATGGGCTAGAAATGTGTGTTGATGCAAGGACTTTTGGGAATGAGGCTCGATT
ATCAGGCGGTCTTGTACACCCAATGCAGAGGTGAGGCATGAAATTCAAGATGGAACATA
CATCTTTATATTTATTCTATACACAGTATTTCAAAGGGAAGTGAATTTACTATTGCCTTT
GATTTTGTACTATGGAATTTGTAAGTACAAGGTGGACTGTGCATGCCTCAAAGAAAACCA
GAGTGCCCTGTTCTAAACGTAGTTCTGAATCCATGGAATATCAATAGTGGTTATGAG
ACCAGACGGAAAAAGGAAAAAAGACAAAGATATTTCAAAGAAAAAGATACACAAAT
CAGAATATTACTTTGGATTGTGAAGGAACGACCAACAAATGAAGAGCCAGAACTAAA
CAAAGAAAGCTTTCTCACTGAGACTATCAGTATCAAATAATCAGGAACAGATTTTATT
GATGATATAGAAGAAAAAAGTCTTATTAGTAATGAAGTAGAAATGGAATCAGAGGAGCAG
ATTGCAGAAAGGAAAAAGGAAGATGAACTGGACAGTTGATGGATGTGGTTTCTGGTTCTGG
TTTAGAGCTGAAGCATCTGTCAAGGCTCTGGGTCTTACTCTTAATGTTCTCTTTGGATAG
Gene 393. >ENST00000222422 cDNA sequence
TATTCAGGACCATAATTATGGTGCTCGTCTCCTCCGACACCTCCGGCTTCCCCTCCTCC
ATCAGTCCTTATTAGCAAAAATGAAGTAGGCATATTTACCACTCCTAATTTTGTATGAAAC
TTCCAGTGCTACTACAATCAGCACATCTGAGGATGGAAGTTATGGTACTGATGTAACAG
GTGCATATGTGGTTTACACATGATGATGGATACATGATCTGTTGTGACAAATGCAGCGT
TTGGCAACATATTGACTGCATGGGGATTGATAGGCAGCATATTCCTGATACATATCTATG
TGAACGTTGTGAGCCTAGGAATTTGGATAAAGAGAGGGCAGTGCTACTACAACGCCGGAA
AAGGGAAAATATGTGATGGTGATACCAGTGCAACTGAGAGTGGTGATGAGGTTTCTGT
GGAATTATATACTGCATTTTCAACATCAATTACTTTAACTGCTTCAAGAGT
TTCCAAAGTTAATGATAAAAGAAGGAAAAAAGCGGGGAGAAAGAACACATTTCAA
ATGTAAAAGGCATTTCTGTGAAGGATCTAGGAAGTCATCAAGAGTTAAGGGTTTCAAGTCC
AGAGATTGATCCTTCATCTGATGGTTCAAATTTTGGATGGGAGACAAAGATCAAAGCATG
GATGGATCGATATGAAGAAGCAAATAACAACAGTACAGTGAGGGTGTTCAGAGGGAGGC
ACAAAGAATAGCTCTGAGATTAGGCAATGGAATGACAAAAAGAGATGAATAAATCCGA
TTTGAATACCAACAATTTGCTCTTCAAACCTCCTGTAGAGAGCCATATACAAAAGAATAA
GAAAATTCTTAAATCTGCAAAAGATTTGCCTCCTGATGCACTTATCATTGAATACAGAGG
GAAGTTTATGCTGAGAGAACAGTTTGAAGCAAATGGGTATTTCTTTAAAAGACCATACCC
TTTTGTGTTATTCTACTCTAAATTTTATGGGCTAGAAATGTGTGTTGATGCAAGGACTTT
TGGGAATGAGGCTCGATTATCAGGCGGTCTTGTACACCCAATGCAGAGGTGAGGCATGA
AATTCAGATGGAACCATACATCTTTATATTTATTCTATACACAGTATTTCAAAGGGAAC
TGAAATTACTATTGCCTTTGATTTTACTATGGAATTTGTAAGTACAAGGTGGACTGTGC
ATGCCTCAAAGAAAACCCAGAGTGCCCTGTTCTAAAACGTAGTTCTGAATCCATGGAAAA
TATCAATAGTGGTTATGAGACCAGACGGAAAAAAGGAAAAAAGAGATATTTCAAAGAA
AAAGATACACAAATCAGAATATTACTTTGGATTGTGAAGGAACGACCAACAAATGAAG
AGCCAGAACTAAACAAAGAAAGCTTTCTCACTGAGACTATCAGTATCAAATAATCAG

FIGURE 1 (CONT'D)

GAACCAGATTTTATTGATGATATAGAAGAAAAAACTCCTATTAGTAATGAAGTAGAAATG
GAATCAGAGGAGCAGATTGCAGAAAGGAAAAGGAAGATGACAAGAGAAGAAAGAAAAATG
GAAGCAATTTTGAAGCTTTTGCCAGACTTG

Gene 394. >ENST00000334877 cDNA sequence

CATCCTCCTCAGACACACGTTTCGTAATTCATCTGAGCAACTTTCACAAAAGCTGCCTTCT
GTGCCAACAAAGTTGCACTGTCTCCATCACCTCACCTAGAAAATCCTCCAAAGTCATCC
ACGCCTCACACACCTGTACAGCATGGTTATCTTTCAACAAAGCCTCCTTCACAGCAGTTA
GGATCTCCCTACAGGCCTCATCATTACAGTCACCTCAAGTTGGAACACCTCAGCGAGAG
CCTCAAAGAACTTTTATCCAGCAGCACAGAACCTTCCAGTGTTTTGGCTTCTGGGCATC
ATACCACATCAGCTCAAGCCTTACACCACCCACCTCATCAAGGACCTCCACTTTTTCTT
CGAGTGCTCATCCAAGTGTACCAACCGTATCCCTCACAAGCTACACATCATACTTGG
GACCGGGACCCACGACACAGCCTTCTGGAAACAGGGCCACATTGTCCATTACCTGTCACAG
GTCCTCATCTCCAGCCCCAAGGACCAACAGTATTCCAACACCTACTGCTTCAGGGTTCT
GTCCTCATCTGGCTCTGTGGCCCTGCCACATGGGGTTCAAGGACCTCAGCAGGCATCTC
CAGTGCCTGGACAGATTCCAATTCACAGAGCACAGGTGCCACCAACATTTCAAAACAATT
ACCATGGGTGAGGGTGGCATTAAATGGACTCCAAAACATTTTTTTAAATGTTCTGTAA

Gene 395. >ENST00000249297 cDNA sequence

AAGAGGCTGCGCGCTGCTGTTTTGGGGAGGGGGTGTGTGGAGCCGGGTCTGTGTCCGCAG
TGGCTGCTGTGCGGGGGTTCGCTGTTTCGCGGAGGTGCGGAGAGACTCCTTGGGGGTGAG
CACTGTGGCTGGCATGCCCCAGTGTTTTGGATACCAATGCATAGGACTCCATAGTAATCG
AATTTACCAGAGGCGAACGTCATGAGCATAGTGATCCCATTGGGGGTTGATACAGCAGAG
ACGTCATACTTGGAAATGGCTGCAGGTTTCAAGACCAATCCGTAGAAGCTAGCCCTGTG
GTAGTTGAGAAATCCAACAGTTATCCCCACCAGTTATATACCAGCAGCTCACATCATTCA
CACAGTTACATTGGTTTTGCCCTATGCGGACCATAATTATGGTGCTCGTCCCTCCGACA
CCTCCGGCTTCCCTCCTCCATCAGTCCTTATTAGCAAAAATGAAGTAGGCATATTTACC
ACTCCTAATTTTGTGAACTTCCAGTGCTACTACAATCAGCACATCTGAGGATGGAAGT
TATGGTACTGATGTAACCAGGTGCATATGTGGTTTTACACATGATGATGGATACATGATC
TGTTGTGACAAATGCAGCGTTTTGGCAACATATTGACTGCATGGGGATTGATAGGCAGCAT
ATTCCTGATACATATCTATGTGAACGTTGTGAGCCTAGGAATTTGGATAAAGAGAGGGCA
GTGCTACTACAACGCCGGAAGGGGAAAATATGTGAGATGGTGATACCAAGTGCAACTGAG
AGTGGTGATGAGGTTCTGTGGAATTATATACTGCATTTTCAACATCAATT
ACTTTAACTGCTTCAAGAGTTTTCAAAGTTAATGATAAAGAAAGGAAAAAAGCGGGGAG
AAAGAACAAACATTTTCAAATGTAAAAAGGCATTTTCGTGAAGGATCTAGGAAGTCATCA
AGAGTTAAGGGTTTCAAGCTCCAGAGATTGATCCTTCATCTGATGGTTCAAATTTTGGATGG
GAGACAAAGATCAAAGCATGGATGGATCGATATGAAGAAGCAAATAACAACCAAGTACAGT
GAGGGTGTTTCAAGGGAGGCACAAAGAATAGCTCTGAGATTAGGCAATGGAAATGACAAA
AAAGAGATGAATAAATCCGATTTGAATACCAACAATTTGCTCTTCAAACCTCCTGTAGAG
AGCCATATACAAAGAAATAAGAAAAATTTTAAATCTGCAAAAGATTTGCCTCCTGATGCA
CTTATCATTGAATACAGAGGGAAAGTTTATGCTGAGAGAACAGTTTGAAGCAAATGGGTAT
TTCTTTAAAGACCATAACCTTTTGTGTTATTCTACTCTAAATTTTATGGGCTAGAAATG
TGTGTTGATGCAAGGACTTTTGGGAATGAGGCTCGATTTCATCAGGCGGTCTTGACACCC
AATGCAGAGGTGAGGCATGAAATTCAGATGGAACCATACATCTTTATATTTATTCTATA
CACAGTATTCAAAGGGAACTGAAATTACTATTGCCTTTGATTTTACTATGGAAATTTGT
AAGTACAAGGTGGACTGTGCATGCCTCAAAGAAAACCCAGAGTGCCCTGTTCTAAAAAGT
AGTTCTGAATCCATGGAAAATATCAATAGTGGTTATGAGACCAGACGGAAAAAAGGAAAA
AAAGACAAAGATATTTCAAAGAAAAAGATACACAAATCAGAATATTAATTTGGATTGT
GAAGGAACGACCAACAAAATGAAGAGCCAGAACTAAACAAAGAAAGCTTTCTCCACTG
AGACTATCAGTATCAAATAATCAGGAACCAAGATTTTATTGATGATATAGAAGAAAAAACT
CCTATTAGTAATGAAGTAGAAATGGAATCAGAGGAGCAGATTGCAGAAAGGAAAAGGAAG
ATGACAAGAGAAGAAAGAAAAATGGAAGCAATTTTGAAGCTTTTGCCAGACTTGAAAAG
AGAGAGAAAAGAAGAGAACAAAGCTTTGGAAAGGATCAGCACAGCCAAAACTGAAGTTAAA
ACTGAATGTAAAGATACACAGATTGTGAGTGATGCTGAAGTTATTGAGGAACAAGCAAAA
GAAGAAAATGCTAGCAAGCCAAACCCCTGCCAAAGTAAATAGAATAAAACAGAGAAAAAGT
TTTTCTCGGAGTAGGACTCACATTGGACAGCAGCGTCGGAGACACAGAACTGTCAGCATG

FIGURE 1 (CONT'D)

TGTT CAGATATCCAGCCATCTTCTCCTGATATAGAAGTTACTTCACAACAAAATGATATT
GAAAATACTGTACTTACAATAGAACCAGAACTGAACTGCACTAGCAGAAATAATTACT
GAACTGAAGTTCAGCACTTAATAAATGTCTACCAAGTACCCAAAACAAAGAAGCAC
TTGGTTAATGAATGGTTAAGTGAGAAGAATGAGAAGACAGGAAACCTTCAGATGGCCTT
TCAGAAAGGCCTCTACGCATAACTACAGATCCTGAAGTGTTAGCTACACAACCTCAATTCT
TTACCAGGTCTCACTTACAGCCCCATGTATACTCCACTCCTAAGCATTATATTAGATTT
ACTTCACCATTCTTTTCAGAAAAAGGAGAAGAAAGAACCTACTGAAAAATTTCTGGT
TCATGCAAGAAGCGATGGTTGAAACAAGCTCTGGAAGAAGAAAATT CAGCAATTTTATCAT
AGATTTAATTCACCTGTCAAGAAAGATCCAGAAGTCCTGCAGTCAATGGTGAAAATAAA
AGTCCACTACTATTAAATGACAGCTGTTCCCTTCAGATTTAACCTACACCACTAAAAAAA
CGAAGATTTTATCAGTTGCTAGATTCCGTTTACTCAGAAACCTCCACACCTACTCCTTCC
CCGTATGCTACACCAACTCACACCGATATTACTCCTATGGACCCATCTTTTGCCACGCCT
CCACGGATAAAATCAGATGATGAACTTGTAGAAATGGTTATAAAACCATATATTACCA
GTTACCCAGTAACCTCTGGTACACCAGGAAATACCATGCACTTTGAGAATATTTCTTCC
CCAGAAAGTTCTCCAGAAATAAAGAGACGCACTTATAGTCAAGAGGGATATGACAGATCT
TCAACCATGTTAACATTGGGGCCTTTTAGAAATTCTAATTTAACTGAACTGGGTCTGCAA
GAAATAAAGACTATTGGTTATACGAGCCCTAGGAGTAGGACTGAAGTCAA CAGGCAGTGT
CCTGGAGAAAAGGAACCTGTGTGACACCTTCAGCTAGGACTCGATGCAGTTGAGCCAACT
GCCCTACATAAAACCTGGAAACGCCTGCACATGACAGGGCTGAGCCCAA CAGCCAACTG
GACTCGACTCACTCTGGACGGGGCACAATGTATTCTTCTGGGTAAAGAGCCCTGACAGA
ACAGGAGTTAACTTCTCAGTGAACCTCAACTTGAGGGACCTGACACCCTCGCATCAGTTG
GAGGTGGGAGGAGGCTTCCGAATAAGTGAGTCAAAGTGCTGATGCAGGATGATACTAGA
GGCATGTTTATGGAAACAACCTGTGTTTTGTACTTCCGAAGATGGGCTTGTATCTGGTTTC
GGACGGACTGTTAATGACAATTTGATCGACGGGAATTGCACACCCCAAGATCCACCACAA
AAGAAAAAGGTTTCTCTATTAGAATACCGTAAGAGACAACGTGAAGCTAGGAAAAGTGGC
TCTAAGACAGAGAACTTTCCACTCATTAGTGTATCACCCCATGCAAGTGGAAGCTTGAGC
AACAAATGGTGATGGCTGTGCCAGCAGTAATGACAATGGGGAGCAGGTGGACCACTGCT
AGCCTACCTTTACCAACACCAGCTACAGTTTATAATGCCACTTCTGAAGAACTAGCAAT
AACTGCCCTGTTAAGGATGCTACTGCTAGTGAGAAGAATGAACCAGAAGTTCAATGGACT
GCCTCAACTTCAGTGGAACAAGTCAGAGAAAGGAGTTATCAGAGAGCTTTACTTCTCAGT
GATCACCGAAAAGATAAAGATAGTGGGGGAGAATCACCATGTGTCTCATGTTACCGAGT
CATGTTTCAGTCTTCACCTTCATCTCATTCAAATCACATACCCAGTTGCAAGCTAAGGGC
CCAGTCCCTTCTTTTCAGTGAACTTATGGAAGACCTGATCCTGAAAATCCAGAACCCACA
ACTACGAATGAATGTCCATCCCAGATACTTCTCAAATACTTGTAAAAGTCTCCAAAA
ATGAGCAAGCCTGGTTACCTGGATCTGTAATTCCTGCTCAAGCACACGGGAAAATATTC
ACAAAACAGATCCCCAATGGGACTCCACAGTTAGTGCATCCGAAGCTGAAAATGGTGTT
CACCTAAAAACAGAGCTCAAACAAAAACAGCTATCAAATAACAACCAAGCACTTTCAAAG
AATCATCCTCCTCAGACACACGTTTGTAAATTCATCTGAGCAACTTTACAAAAGCTGCCT
TCTGTGCCAACAAAGTTGCACTGTCTCCATCACCTCACCTAGAAAATCCTCCAAAGTCA
TCCACGCCTCACACACCTGTACAGCATGGTTATCTTTCACCAAAGCCTCCTTCACAGCAG
TTAGGATCTCCCTACAGGCCTCATCATTACAGTCACCTCAAGTTGGAACACCTCAGCGA
GAGCCTCAAAGAACTTTTATCCAGCAGCACAGAACCTTCAGCCAATACTCAGCAGGCA
ACTTCTGGAACATTATTTACACAGACACCCTCAGGACAATCTTCAGCAACATACAGTCAG
TTTAACCAACAAAGTCTGAACAGCACGGCACACCCCTCCACCTCCTCCACCTCCTTCT
TCGTCTTACTATCAAAACAGCAGCCCTCTGCAAACTTTGAGAATTATAATCAGCTCAAA
GGTAGTCTTTCTCAACAACTGTGTTTACATCAGGACCAAATCAAGCACTTCCTGGCACC
ACAAGCCAGCAAAACAGTTCCAGGACACCAAGTGACTCCAGGGCATTTTTGGCCCTCTCAG
AACCTTACCATTACCATCAAACCTGCTGCTGCCGTAGTCCCCCTCCTCCTCCACCACCA
CCTGCTCCAGGACCGCACCTTGTACAACAGCCGAATTCCTCATCAGCAACACTCTGTAGCA
CATGTAGTAGGGCTGTTTCATGCGGTCAACCTGGGTGCGCATATTCAATCTCAAACCTGCT
GGACACCACTTACCCCCACCCCCACCCCCCTCCTGGTCTGCCCCCTCATCACCATCCACCA
CCCCATCCATCCACAGGACTCCAAGGTCTACAAGCACAACACCAGCATGTTGTAAATTCA
GCACCCCCACCAACCCCTCCGCCGCCACCTTCAGTGTTTTGGCTTCTGGGCATCATAACC
ACATCAGCTCAAGCCTTACACCACCCACCTCATCAAGGACCTCCACTTTTTCTTCGAGT

FIGURE 1 (CONT'D)

GCTCATCCAACGTGTACCACCGTATCCCTCACAAGCTACACATCATACCACTTTGGGACCG
 GGACCCAGCACCAGCCTTCTGGAACAGGGCCACATTGTCCATTACCTGTACAGGTCCT
 CATCTCCAGCCCCAAGGACCAACAGTATTCCAACACCTACTGCTTCAGGGTTCTGTCTT
 CATCCTGGCTCTGTGGCCCTGCCACATGGGGTTCAAGGACCTCAGCAGGCATCTCCAGTG
 CCTGGACAGATTCCAATTCACAGAGCACAGGTGCCACCAACATTTCAAAACAATTACCAT
 GGGTCAGGGTGGCATTAAATGGACTCCAAAAACATTTTTTAAATGTTCTGTAAGATAA
 ACTGTATATTTTATATGTACCTGTTAAGGTACTTTTTAAAGCTTGTACATGAACCTTTGT
 ATAAAAAACACCAAGTGTCTTTTCTGTTGATTTTTCTCATTTTTTGCTTTTTTAAATTCCTT
 TAAAAAATGTGCTGTTAAGCCAGTATTAGGTATCTTTATTTTGTAAAGTGAACATTCCAGC
 TGTTTTTTTTCTGGCAGATCTGATGCTGATTTGATGCTGTATGATCTTTTTTTTTTTTTTA
 GTTAAATTCATTTAGTGAATGTTCTATTATTTTATACATACACATTAAGTACTCAGCTAA
 GTAATGGCACTATGAGGATTTTTTTTTTCTTTCTGTGTCAGCAGCAGTTCTGTGAATGCAT
 CTTAGGTATAAAATGCAATACAGATTTTATATTTTGGTGTGGACATGGCTCATTTTGT
 TTTACAGTTATTTGCAAGCAAAATGTAATTTAATGTATAGATGATTTCTAATGTCTCCT
 GACAACTGTAAATACTGCATTTCTTTTGCCTATATAATTGCTTACAGCTTTTCTCATTT
 GATATATAGCATTGTACATATGACAAGTCTTTTGCAAACTGTGTGATCTTTGTGAAAGT
 AGTACAGTATATGACCTTTAATTTCTTTTTTATTTTAAATATACTGTCACTGAAGCAC
 TGGTTGGGCATTTTAAATTCATGTTAATAAATCACAATTATGTCAGTTTT

Gene 396. >ENST00000334914 cDNA sequence

GCGGGCGCAGGGGGCCGAGTCGGAGACCGTGCCGGAGTTCGGGAGCGGCAACAGAGTGGG
 CATAGACACTCCGAGCAGCCTCGCCGTCGTCTCTGCGTTCTGTTGACTGCCTGGCTGCC
 CCCTCCCCTACTCCTCGGTTCTGGTGAAGAGGCTGCGCGCTGCTGTTTGGGGAGGGGGT
 GTGTGGAGCCGGGTCTGTGTCCGAGTGGCTGCTGTGCGGGGGTTCGCCTGTTTCGCGGAG
 GTGCGGAGAGACTCCTTGGGGGTGCGAGCACATAACGGGGTTCGGGTGTCTCGTGTGTGAA
 CATCACAGGTCTATTCTGGATAAGCAGGTTTTGTGAAGACATTTATTCTTTCTTGGACCT
 CAGATTTACCAGACATCTCATGGGTTTGTGGATGCACTTAGATGTTTGCAATGAGCACTG
 TGGCTGGCATGCCCCAGTGTTTTGGATACCAATGCATAGGACTCCATAGTAATCGAATTT
 ACCAGAGGCGAACGTCATGAGCATAGTGATCCCATTTGGGGGTTGATACAGCAGAGACGTC
 ATACTTGGAAATGGCTGCAGGTTTCAAGAACAGAAATCCGTAGAAGCTAGCCCTGTGGTAGT
 TGAGAAATCCAACAGTTATCCCCACCAGTTATATAACCAGCAGCTCACATCATTACACAG
 TTACATTGGTTTGGCCCTATGCGGACCATAATTATGGTGTCTCGTCTCCTCCGACACCTCC
 GGCTTCCCCTCCTCCATCAGTCCTTATTAGCAAAATGAAGTAGGCATATTTACCACTCC
 TAATTTTGTGAAACTTCCAGTGCTACTACAATCAGCACATCTGAGGATGGAAGTTATGG
 TACTGATGTAACCAGGTGCATATGTGGTTTTACACATGATGATGGATACATGATCTGTTG
 TGACAAATGCAGCGTTTGGCAACATATTGACTGCATGGGGATTGATAGGCAGCATATTCC
 TGATACATATCTATGTGAACGTTTGTGAGCTAGGAATTTGGATAAAGAGAGGGCAGTGCT
 ACTACAACGCCGGAAAAGGGAAAATATGTGAGATGGTGATACCAAGTGAACCTGAGAGTGG
 TGATGAGGTTCTGTGGAATTATATACTGCATTTTCAACATCAATTACTTT
 AACTGCTTCAAGAGTTTCCAAAGTTAATGATAAAAGAAGGAAAAAAGCGGGAGAAAGA
 ACAACACATTTCAAAATGTAAAAAGGCATTTCTGTGAAGGATCTAGGAAGTCATCAAGAGT
 TTAGGGTTTCAAGATTCAGAGATTGATCCTTCTGATGTTTCAAATTTTGGATGGGAGAC
 AAAGATCAAAGCATGGATGGATCGATATGAAGAAGCAAATAACAACCAAGTACAGTGAGGG
 TGTTTCAAGAGGAGGCACAAAGAAATAGCTCTGAGATTAGGCAATGGAAATGACAAAAAGA
 GATGAATAAATCCGATTTGAATACCAACAATTTGCTCTTCAAACCTCCTGTAGAGAGCCA
 TATACAAAAGAATAAGAAAATTTCTTAAATCTGCAAAAGATTTGCCTCCTGATGCACTTAT
 CATTGAATACAGAGGGAAGTTTATGCTGAGAGAACAGTTTGAAGCAAATGGGTATTTCTT
 TAAAAGACCATACCCTTTTGTGTTATTCTACTCTAAATTTTATGGGCTAGAAATGTGTGT
 TGATGCAAGGACTTTTGGGAATGAGGCTCGATTTCATCAGGCGGTCTTGACACCCAATGC
 AGAGGTGAGGCATGAAATCAAGATGGAACCATACATCTTTATATTTATTCTATACACAG
 TATTCCAAAGGGAAGTGAATTAATGCTTTGATTTTGAAGTATGGAAATGTCTCAC
 TCTGTCAACCAGGCTGGAATGCAGTGGCACAATCTTGGCTCACTGCAACTTCTGCCTCCT
 GGGTTCAAGCAATTCTCCTGCCTTAGCCTATCGCGTAGCCAGGATTACAGGTGCCTGCCA
 CCATGGCCAG

Gene 397. >ENST00000334884 cDNA sequence

FIGURE 1 (CONT'D)

AAGAGGCTGCGCGCTGCTGTTTTGGGGAGGGGGTGTGTGGAGCCGGGTCTGTGTCCGCAG
 TGGCTGCTGTGCGGGGGTGCCTGTTGCGGAGGTGCGGAGAGACTCCTTGGGGGTGAG
 CACTGTGGCTGGCATGCCCCAGTGTTTTGGATACCAATGCATAGGACTCCATAGTAATCG
 AATTTACCAGAGGCGAACGTGATGAGCATAGTGATCCCATTGGGGGTTGATACAGCAGAG
 ACGTCATACTTGAAATGGCTGCAGGTTGAGAACAGAATCCGTAGAAGCTAGCCCTGTG
 GTAGTTGAGAAATCCAACAGTTATCCCCACCAGTTATATACCAGCAGCTCACATCATTCA
 CACAGTTACATTGGTTTGCCTATGCGGACCATAATTATGGTGCTCGTCCTCCTCCGACA
 CCTCCGGCTTCCCCTCCTCCATCAGTCCTTATTAGCAAAAATGAAGTAGGCATATTTACC
 ACTCCTAATTTTTGATGAACTTCCAGTGCTACTACAATCAGCACATCTGAGGATGGAAGT
 TATGGTACTGATGTAAACAGGTGCATATGTGGTTTTACACATGATGATGGATACATGATC
 TGTGTGACAAATGCAGCGTTTTGGCAACATATTGACTGCATGGGGATTGATAGGCAGCAT
 ATTCTGTATACATATCTATGTGAACGTTGTGAGCCTAGGAATTTGGATAAAGAGAGGGCA
 GTGCTACTACAACGCCGGAAGGGAATATGTGAGATGGTGATACCAGTGCAACTGAG
 AGTGGTGATGAGGTTCTGTGGAATTATATACTGCATTTTCAACATCAATT
 ACTTTAACTGCTTCAAGAGTTTTCAAAGTTAATGATAAAAGAAGGAAAAAAGCGGGGAG
 AAAGAACAACACATTTCAAATGTAAAAGGCATTTCTGTAAGGATCTAGGAAGTCATCA
 AGAGTTAAGGGTTGAGCTCCAGAGATTGATCCTTCATCTGATGGTTCAAATTTTGGATGG
 GAGACAAAGATCAAAGCATGGATGGATCGATATGAAGAAGCAAATAACAACCAGTACAGT
 GAGGGTGTTTCAAGGGGAGGCACAAAGAATAGCTCTGAGATTAGGCAATGGAAATGACAAA
 AAAGAGATGAATAAATCCGATTTGAATACCAACAATTTGCTCTTCAAACCTCCTGTAGAG
 AGCCATATACAAAAGAATAAGAAAATTCTTAAATCTGCAAAAGATTTGCCTCCTGATGCA
 CTTATCATTGAATACAGAGGGAAGTTTATGCTGAGAGAACAGTTTGAAGCAAATGGGTAT
 TTCTTTAAAGACCATACCCTTTTGTGTTATTCTACTCTAAATTTTATGGGCTAGAAATG
 TGTGTTGATGCAAGGACTTTTGGGAATGAGGCTCGATTATCAGGCGGTCTTGTACACCC
 AATGCAGAGGTGAGGCATGAAATTCAGATGGAACCATACATCTTTATATTTATTCTATA
 CACAGTATTTCAAAGGGAAGTAAATTAATGCTTTCCTTTGATTTTACTATGGAAATTTGT
 AAGTACAAGGTGGACTGTGCATGCCTCAAAGAAAACCCAGAGTGCCCTGTTCTAAAACGT
 AGTTCTGAATCCATGGAAAATATCAATAGTGGTTATGAGACCAGACGGAAAAAAGGAAAA
 AAAACAAGAGAAGAAAGAAAAATGGAAGCAATTTTGAAGCTTTTGGCAGACTTGAAAAG
 AGAGAGAAAAGAAGAGAACAAGCTTTGGAAAGGATCAGCACAGCCAAAACTGAAGTTAAA
 ACTGAATGTAAAGATACACAGATTGTGAGTGATGCTGAAGTTATTGAGGAACAAGCAAAA
 GAAGAAAATGCTAGCAAGCCAACCCCTGCCAAAGTAAATAGAACTAAAAGAGAAAAAGT
 TTTTCTCGGAGTAGGACTCACATTGGAAGCAGCAGCGTCGGAGACACAGAACTGTGAGCATG
 TGTTGAGATATCCAGCCATCTTCTCCTGATATAGAAGTTACTTCACAACAAAATGATATT
 GAAAATACTGTACTTACAATAGAACAGAACTGAACTGCACTAGCAGAAATAATTACT
 GAACTGAAGTTCCAGCACTTAATAAATGTCTTACCAAGTACCCAAAAACAAGAAGCAC
 TTGGTTAATGAATGGTTAAGTGAGAAGAATGAGAAGACAGGAAAACTTCAAGTGGCCTT
 TCAGAAAGGCCTCTACGCATAACTACAGATCCTGAAGTGTTAGCTACACAACCTCAATTCT
 TTACCAGGTCTCACTTACAGCCCCATGTATACTCCACTCCTAAGCATTATATTAGATTT
 ACTTCACCATTCTTTTCAAGAAAAAGGAGAAAGAAAGAACCTACTGAAAAATTTCTGGT
 TCATGCAAGAAGCGATGGTTGAAACAAGCTCTGGAAGAAGAAAATTGAGCAATTTTACAT
 AGATTTAATTCAACCTGTCAAGAAAGATCCAGAAGTCCTGCAGTCAATGGTGAAAATAAA
 AGTCCACTACTATTAAATGACAGCTGTTCCCTTCCAGATTTAACTACACCACTAAAAAAA
 CGAAGATTTTATCAGTTGCTAGATTGGTTTACTCAGAAACCTCCACACCTACTCCTTCC
 CCGTATGCTACACCAACTCACACCGATATTACTCCTATGGACCCATCTTTTGGCCACGCCT
 CCACGGATAAAATCAGATGATGAACTTGTAGAAATGGTTATAAAACCATATATTACCA
 GTTACCCAGTAACTCCTGGTACACCAGGAAATACCATGCACTTTGAGAATATTTCTTCC
 CCAGAAAGTTCTCCAGAAATAAAGAGACGCACTTATAGTCAAGAGGGATATGACAGATCT
 TCAACCATGTTAACATTGGGGCCTTTTAGAAATTCTAATTTAACTGAACTGGGTCTGCAA
 GAAATAAAGACTATTGGTTATACGAGCCCTAGGAGTAGGACTGAAGTCAACAGGCAGTGT
 CCTGGAGAAAAGGAACTGTGTGAGACCTTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT
 GCCCTACATAAAACCTGGAAACGCCTGCACATGACAGGGCTGAGCCCAACAGCCAACCTG
 GACTCGACTCACTCTGGAACGGGGCACAAATGTATTCTTCTGGGTAAAGAGCCCTGACAGA
 ACAGGAGTTAACTTCTCAGTGAACTCCAACCTGAGGGACCTGACACCTCGCATCAGTTG

FIGURE 1 (CONT'D)

GAGGTTGGAGGAGGCTTCCGAATAAGTGAGTCAAAGTGCCTGATGCAGGATGATACTAGA
GGCATGTTTTATGGAAACAACTGTGTTTTGTACTTCCGAAGATGGGCTTGTATCTGGTTTC
GGACGGACTGTTAATGACAATTTGATCGACGGGAATTGCACACCCAGAAATCCACCACAA
AAGAAAAAGGTTTTCTCTATTAGAATACCGTAAGAGACAA CGTGAAGCTAGGAAAAGTGGC
TCTAAGACAGAGAACTTTCCACTCATTAGTGTATCACCCATGCAAGTGGAAGCTTGAGC
AACAATGGTGATGGCTGTGCCAGCAGTAATGACAATGGGGAGCAGGTGGACCACACTGCT
AGCCTACCTTTTACCAACACCAGCTACAGTTTATAATGCCACTTCTGAAGAACTAGCAAT
AACTGCCCTGTTAAGGATGCTACTGCTAGTGAGAAGAATGAACCAGAAGTTCAATGGACT
GCCTCAACTTCAGTGGAACAAGTCAGAGAAAGGAGTTATCAGAGAGCTTTACTTCTCAGT
GATCACCGAAAAGATAAAGATAGTGGGGGAGAATCACCATGTGTCTCATGTTACCGAGT
CATGTTCAGTCTTCACCTTCATCTCATTCAAATCACATACCCAGTTGCAAGCTAAGGGC
CCAGTCCCTTCTTTTCACTGAACTTATGGAAGACCTGATCCTGAAAATCCAGAACCCACA
ACTACGAATGAATGTCCATCCCCAGATACTTCTCAAATACTTGTAAGTCTCTCAAAA
ATGAGCAAGCCTGGTTACCTGGATCTGTAATTCTGCTCAAGCACACGGGAAAATATTC
ACAAAACCAGATCCCCAATGGGACTCCACAGTTAGTGCATCCGAAGCTGAAAATGGTGTT
CACCTAAAAACAGAGCTCCAA CAAAAACAGCTATCAAATAACAACCAAGCACTTTCAAAG
AATCATCTCTCCTCAGACACACGTTTCGTAATTCATCTGAGCAACTTTACAAAAGCTGCCT
TCTGTGCCAACAAAGTTGCACTGTCCTCCATCACCTCACCTAGAAAATCCTCCAAAGTCA
TCCACGCCTCACACACCTGTACAGCATGGTTATCTTTACCAAAGCCTCCTTCACAGCAG
TTAGGATCTCCCTACAGGCCTCATCATTACAGTCACCTCAAGTTGGAAACCTCAGCGA
GAGCCTCAAAGAACTTTTATCCAGCAGCACAGAACCTTCCAGCCAATACTCAGCAGGCA
ACTTCTGGAA CATTATTTACACAGACACCTCAGGACAATCTTCAGCAACATACAGTCAG
TTTAACCAACAAAGTCTGAACAGCACGGCACCAACCCCTCCACCTCCTCCACCTCCTTCT
TCGTCTTACTATCAAAACCAGCAGCCCTCTGCAAACTTTTCAAGATTATAATCAGCTCAAA
GGTAGTCTTTCTCAACAACTGTGTTTACATCAGGACCAAATCAAGCACTTCCTGGCACC
ACAAGCCAGCAACAGTTCCAGGACACCACGTGACTCCAGGGCATTTTTTTGCCTCTCAG
AACCTTACCATTACCATTCAAACCTGCTGCTGCCGTAGTCCCCCTCCTCCTCCACCACCA
CCTGCTCCAGGACCGCACCTTGTACAACAGCCGAATTCCCATCAGCAACACTCTGTAGCA
CATGTAGTAGGGCCTGTT CATGCGGTCAACCCCTGGGTGCGATATT CATTCTCAAACCTGCT
GGACACCACTTACCCCCACCCCCACCCCTCCTGGTCCTGCCCCCTCATCACCATTCCACCA
CCCCATCCATCCACAGGACTCCAAGGTCTACAAGCACAAACACCAGCATGTTGTAAATTCA
GCACCCCCACCACCCCCTCCGCCGCCACCTTCCAGTGTTTTGGCTTCTGGGCATCATACC
ACATCAGCTCAAGCCTTACACCACCCACCTCATCAAGGACCTCCACTTTTTCTTTCGAGT
GCTCATCCAACCTGTACCACCGTATCCCTCACAAGCTACACATCATACCACTTTGGGACCG
GGACCCAGCACCAGCCTTCTGGAAACAGGGCCACATTGTCCATTACCTGTACAGGTCCT
CATCTCCAGCCCCAAGGACCAAAACAGTATTCCAACACCTACTGCTTCAGGGTTCTGTCTCT
CATCCTGGCTCTGTGGCCCTGCCACATGGGGTTCAAGGACCTCAGCAGGCATCTCCAGTG
CCTGGACAGATTCCAATTACAGAGCACAGGTGCCACCAACATTTCAAAACAATTACCAT
GGGTGAGGGTGGCATTAATAATGGACTCCAAAAACATTTTTTAAATGTTCTGTAAAGATAA
ACTGTATATTTTATATGTACCTGTTAAGGTACTTTTTTAAAGCTTGTACATGAACCTTTGT
ATAAAAAACACCAGTGCTCTTTCTGTTGATTTTTCTCATTTTTTGCTTTTTTAAATTCCTT
TAAAAAATGTGCTGTTAAGCCAGTATTAGGTATCTTTATTTTGTAAAGTGAACATTCCAGC
TGTTTTTTTTCTGGCAGATCTGATGCTGATTTGATGCTGTATGATCTTTTTTTTTTTTTTA
GTTAAATTCATTTAGTGAATGTTCTATTATTTTATACATACACATTAAGTACTCAGCTAA
GTAATGGCACTATGAGGATTTTTTTTTCTTTCTGTGAGCAGGTTCTGTGAATGCAT
CTTAGGTATAAAAAATGCAATACAGATTTTATATTTTGGTGTGGACATGGCTCATTTTGT
TTTACCAGTTATTTGCAAGCAAAATGTAATTTAATGTATAGATGATTTCTAATGTCTCCT
GACAACTGTAAATACTGCATTTCTTTTGCGTATATAATTGCTTACAGCTTTTCTCATTT
GATATATAGCATTGTACATATGACAAGTCTTTTGCAAACTGTGTGATCTTTGTGAAAGT
AGTACAGTATATGACCTTTAATTTCTTTTTTATTTTAAATATACTGTACACTGAAGCAC
TGGTTGGGCATTTTAATTCATGTTAATAAATCACAATTATGTCAAGTTTT

Gene 398. >ENST00000262940 cDNA sequence

GGACCCCGGTGTCTGGCTTCCCCGAGCCGGGACCCCGGATGGCCAAGCGCAGCTCGCT
GTACATCCGCATCGTGGAGGGGAAGAACCTTCCCGCCAAGGACATCACTGGCAGCAGCGA

FIGURE 1 (CONT'D)

CCCCTACTGCATCGTGAAGGTGGACAATGAGCCCATCATCAGGTACCGCCCCACCCCCA
 GGACCGAGGGGCGCTCAGCCTCTCATCGGCCGCGCTCTCCCCGAAAGGGGACAGCCAC
 AGTGTGGAAGACCCTGTGCCCTTCTGGGGTGAGGAGTACCAAGTGCACCTGCCGCCAC
 CTTCCACGCTGTGGCTTTCTATGTCATGGATGAGGATGCCCTCAGCCGGGACGACGTTAT
 CGGAAAGGTCTGCCTTACAAGGGACACCATAGCCTCTCACCTAAGGGTTTCAGCGGGTG
 GGCCACCTGACGGAGGTGACCCGATGAGGAGGTGCAGGGCGAGATCCACCTGCGGCT
 GGAAGTGTGGCCAGGGGCCCCGGGCTGCCGGCTACGCTGCTCTGTGCTGGAGGCCAGGGA
 TCTGGCCCCAAAGGACCGCAATGGCACATCTGACCCCTTCGTCCGAGTGCCTACAAGGG
 CCGGACACGGGAGACCTCGATCGTGAAGAAGTCATGCTACCCACGCTGGAATGAGACGTT
 TGAATTTGAGCTGCAGGAGGGGGCCATGGAGGCGCTGTGCGTGGAGGCCTGGGACTGGGA
 CTTTGTGAGCCGAAACGACTTCCTGGGCAAAGTGGTGATTGATGTCCAGAGACTGCGGGT
 GGTGCAGCAGGAGGAGGGCTGGTTCCGGCTGCAGCCCGACAGTCCAAGAGCCGGCGGCA
 TGACGAGGGCAACCTGGGCTCCTTGAGCTGGAGGTGCGGCTGCGGGACGAGACGGTGCT
 GCCCTCAGCTACTACCAGCCACTGGTGACCTGCTGTGCCACGAGGTCAAGCTGGGCAT
 GCAGGGCCAGGGCAGCTGATCCACTCATCGAGGAGACAACCAGCACCGAGTGTGCCA
 GGACGTGGCCACGAACCTGCTCAAGCTCTTCTGGGGCAGGGGCTGGCCAAGGACTTCCT
 GGACCTGCTCTTCCAGCTGGAGCTGAGTCGCACCAAGTGAGACCAACACCTGTTCCGGAG
 CAACTCTCTGGCCTCAAAGTCCATGGAGTCTTTTCTGAAGGTGGCCGGGATGCAGTACCT
 GCACGGCGTCTGGGCCCCATCATCAACAAGGTGTTTGAGGAGAAGAAGTACGTGGAGCT
 GGACCCAGCAAAGTGGAAGTTAAGGATGTAGGGTGCTCCGGGCTGCACCGCCCGCAGAC
 CGAGGCCGAGGTGCTGGAGCAGAGCGCGCAGACGCTGCGCGCCACCTGGGGGCCCTGCT
 GAGCGCGCTCAGCCGCTCGGTTGCGCGTGCCCCGCGGTGGTGCGCGCCACCTTCCGCCA
 GCTCTTCCGGCGCGTGCGCGAGCGCTTCCCCGGCGCCAGCACGAGAATGTACCGTTCAT
 CGCCGTCAACAGCTTCCTGTGCCTGCGCTTCTTCTCTCCCGCCATCATGTGCCCCAAGCT
 CTTCCACCTGCGGGAGCGCCACGCGGACGCCCCGACCCAGCCGACCCCTGCTCCTGTTGGC
 CAAGGCAGTCCAGAACGTGGGCAACATGGACACGCCGGCTTCAGGGCCAAGGAGGCTTG
 GATGGAGCCGCTGCAGCCACCGTGCGCCAGGGCGTGGCGCAGCTGAAGGACTTCATCAC
 CAAGCTCGTGGACATCGAGGAGAAGGACGAGCTGGACCTGCAGCGGACGCTGAGTTTGCA
 GGCGCCACCTGTGAAGGAGGGGCCACTCTTCATCCACAGGACCAAGGGCAAGGGCCCCCT
 CATGTCTCTCTCTTCAAGAAGCTCTACTTCTCCCTCACTACCGAGGCCCTCAGCTTCGC
 GAAGACGCCCAGCTCCAAGAAAAGCGCCCTCATCAAGTTAGCCAACATCCGGGCAGCGGA
 AAAGGTTGAGGAAAAGAGCTTTGGCGGCTCGCACGTATGCAGGTCATCTACACGGACGA
 CGCCGGCAGGCCCCAGACTGCCTACCTGCAGTGCAAGTGTGTGAATGAGCTTAACCAAGTG
 GCTGTCTGCGCTGCGGAAGGTGAGCATCAACAACACCGGACTGCTGGGCTCCTACCAACC
 TGGCGTCTTCCGTGGGGACAAGTGGAGCTGCTGCCACCAAAAAGAGAAGACAGGTGAGGG
 CTGCGATAAGACCCGGTCACGGGTGACCCTGCAGGAGTGGAATGACCCTCTTGACCATGA
 CCTTGAGGCCCAGCTCATCTGCCGGCACCTGCTGGGCGTGGAGGCCATGCTGTGGGAGAG
 GCACCGGGAGCTGAGCGGGGGCGCAGAGGCAGGCACGGTGCCACGAGCCCTGGCAAAGT
 CCCCAGGACTCATTGGCCCCGGCTGCTCCGGGTGCTGCAGGACCTCCGCGAGGCCCATAG
 CTCAGCCCCGGCCGGCTCCCCACCCCTCAGAGCCCAACTGCCTCCTGGAGCTGCAGACGTG
 AGGCCCGCCCTACGCTCCCCCTTGTGAGTCCCCTGCCAAGCGCTCGGAGCCCCCCCAGGA
 CACTCTGCACCCCTCACCCCGGTCTCTCTCATTAGGGTGAGGGCCTAGGTCTCTTCCA
 GGTGGGGGAGGGGGGAGAGTCAGGAATAAGGGGATCCCAGAAAGTGAGAGCTGAGCAGG
 CTTGGGCCTGTATGGCTGGCCGGAAGTGTCCCAGCTCCCTACAGACGCTGTAGCCATC
 ACTGCCTCTCCAGGGACCCCTCCTCTCCTGCCCAGGACAGACCCAGCCAGAACCACTGCTA
 GGATGGGCCGACCCAGGGGTCTGGCCTCCAGGGACCTAGAGAATGGGAGGGAGAACGGG
 GCCCCAGGAGACCCGGCCGCCACCCACCCGCTACCCCTTGGGTGCCACAGGGCTGTGCTG
 TTGCCAACAGTAAACCTGCTCTTACTGTCCAGGCTCTGGGGTCTTGTGATGAGGGTCTGG
 GGAGAAAGTGGGCCCCGGGGGACCCCGGAGGCTGTGGTGGATGTGCCGATGATGGGGCT
 GACAGTATGGGCTCTGGGCATCCCTGTTCCCCCTCTTTCTTCCCCCACTCTTCTGGGG
 TCGGGGGTTTCTTTCCCTTCCAGTTGCTGTCCCTGGGTCCCCTCTTTTCATGTCCACAG
 GCCACAGAGCCAGTGTGTCCAACCAGCTGTTCTCTCTCAAAGCAGCCCCCAAGCAAGT
 CCCTTCTCTAGGGTGTCCCTGAGGACAGCACAGAGGCGGGACTCAGAGACCCCATTCCTC
 TTCACGCAGCCCTTACCCCAAGCCCTCTAGCTGTGTGGCTGGCAGTGTTGGCCACGTAGG

FIGURE 1 (CONT'D)

GGCTCCCATCCCCCACCATTGTGTACATGGGCTGCCAGGCTCAGCTCCCAGCTGCGTC
CACAGTGACCTGGATCAGGGTGGGGACAAGGACTGGACCCCTCCTTCTCCAGAAGGCCTTC
AGCTCTTGCCCTTGCCATGCAGTCACTCCTTCCCCCTCTGACCCAGATCCCAAAGGTGC
ACCGTTGCCCCAGCCCCCTTTCTGGCCCCATGGGGTTTCTCTGATGCCTTCATCATAGAGG
CCCGGGGCTGGTCCGATGGTTGGCAAACTTGACTCCGGCCCAGTCCCACCTCTTGGGGA
CTTAGAACCCCTGCTGTCTGGGATCTGGCCTGCCTTTCTTTGGTCAGTCCCTGTGGTCC
CCCACCAGCTCCCCCTCCATAGGGCTGCCCCAAGCCCTGCCCCAGCCCAAGAGGAG
CCCCCACTGCCTGCGGGGCGAGTGATGTCTGGCCACCGGCTCACACCAATGACTTGGTCCT
GGGGTGGCAGAAGCAGCAGGTGACAGGAGCAGGGCCCCCTGTCCCTCTCTTCTGGCCCTGT
GGTACCCAGGCCACACGTTGTGCCCCGCTCTTGGGGCTGACCGGCTGTAGGGACCACCAGC
CGCTGCTACTGTGGGCCGCCCCGGGGCAGGGTGGGCAGGGCTTTTGTGGGTTATGAGGAC
ACAGAAGTCCCTGAGGCCCCCAGACCTGGCTCAGCCAACCTCCTTCTCCCCCGGTTGCC
CCCCACTCTAAAGCCTCCTCCCTCCAGCGTCCACTGGCTCCAGGCTCCTCACACAGCA
GCTCATAGACACGGGGCGTCTCCAGGTGGTCCCAGCCCTCCAGATGTTTCTAGCTCTCCA
GGTGGGCGCTGTTTTACGTCTGCCTGCATCCATTCACTTCACTTCACTTCACTTCACTTATC
CTGTTATCTCTATTTTTTTAAGCTACCAGGAAGGAAAGGGAAGAAGAGATCACGAACTG
GGACCCCCAGAAGGGAGGAGTGGGCTTTGAACTTAGACATCTACCTCAGAGCTCAAATAG
GTTGTTTTAAATCACATTCAATTTT CAGATGAAGGGGAACCTTATAGTTTTTTTTTTTTT
TTTTTTTTTTGAGACAGAGTCTCACTGTGTTGCCAGGCTGGAGTGCAATGGCTTGATC
TTGGTTCACTGCAACCTCTGCCTCCCAGGTTCAAGCAATTCTCTTGCCTCAGCCTCCCGA
GTAGCTGGGACTAAAGGCGTGTGCCACCATGCCAGCTAATTCTTGTATTTTTAGTAGAG
ACGGAGTTTCTCCATGTTGGCCAGACTGGTCTCGAACTCCTGACCTCAGGTGATCTGACC
GCCTTGGCCTCCGAAAGTGCTGAGATTACAGTTGCGAGCCACTGTGCGTGGCCAGAACTT
TATAATAAGAGACTTGAAGCTGGGTGTGACGGTGACACCTCTAGTCCAGCTACTCGGG
AGGCCAAGACAGAAGGATCACCTTGAGGCCAGGAGTTTAAGGCCAGCCTGGGCAACATAG
CAAAACCTAGTCCCTAAAATTAATAAAAAAAAAAAAAAAAAAAGGAAAATAAAGGAGACTT
GAAATTTTTGAACTAAATAGTGGTGATGGCTACACATTGTGAATGTAATTAACACCACTG
AGTTAAACACTTAAATGTTTAAATGGCAAATTGTATGTTATACCTATTTTACTACAAT
AAAAAGTATAAAAAAGAGAAGATATTTAGGTGACTTACAGCAACCAATTGCAACAAAACA
AATGTTAAGAAATGATCTTTTTATGAGGCAATTGGAAATTTGAACACTGATCAACTATA
GGATGATTGGAATTATTAATTTTTTAAAGGTGTGATAAGATACTGCACTTGGCTGGGCACA
GTGGCACATGCCTGTAATCCCAGCTACTTGGCAGGCTGAGGTGGGAGAATCGCTTGAGCT
CAGGAGTTCGAGACCAGCCTGGGCAACGTGGCGAAATCCCCGTCTTTACAAAAACAAACA
AACAAAACAAAAAGATATTGCAGTTGTGTTGTAAGCGTCCTTATCTTTAGAGCTACATA
GTGGAATGTTTATGGAATATTTAGGATAAATGATATAGGCATTTGGGATTTGCTGCAAAA
TGACCCAGAGGCAGGGGTGAGGGGAGAGGTAGAGATGAGACAAGAGGTAGAGGGGAGAG
GTAGAGGTAGCCACGAGCTGATAATTACAGACAAGAGATGCGGAGTATGTGGGGGCTCAT
TATCCTGCATAGTCTATCTTTGTATATCTTTGAACTTTTCAAGAATAAAAAAGCTTAAAA
AGTAT

Gene 399. >ENST00000319405 cDNA sequence

AAAAGGAAGAGGGAGTGGTCAGATGAATCTGAGGAGGAGCCGGAGAAGGAGCTCGCCCCCT
GAGCCTGAGGAGACCTGGGTAGTGGAGATGCTGTGTGGGCTCAAGATGAAGCTGAAGCAA
CAGCGAGTGTCACCCATCCTCCCTGAGCACCAAGGACTTCAACAGTCAGCTTGCCCCCT
GGGGTAGATCCCAGCCCCCGCATAGGTCTTTTGTCTGGAAAAGGAAGATGGAGTGGTGG
GACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCCCCCTGAGCCTGAG
GAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGACGGCGAGTG
TCGCTCGTGCTCCCTGAGCACACGAGGCCTTCAACAGGCTGCTTGAGGATCCTGTCAATT
AAAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAGTATCTCCTGGCTATG
GTCATAGCGTATTTTCAAGCCGGGCGGGCTTCCCCCTCCTGGCAATACCAACGCATTCAATTC
TTCCTGGCTCTCTACCTGGCCAATGACATGGAGGAGGACGACGAGGACTCCAAACAAAAC
ATCTTCCACTTCTGTATAGGAAGAACCGCTCTCGCATACCTTGCTCGTAAGCCTTGG
TTCCAGTTAGGCCATTCCATGAACCCGAGGGCCAGGAAGAACCGCTCTCGCATACCTTGG
CTCCGTAAGCGTCGGTTCCAGTTATAACGTTCCACGAACCCGAGGGCCAGGAAGAACCGC
TCTCGCATACCTTGCTCCGTAAGCGTCGGTTCCAGTTATAACGTTCCATGAACCTGAGG

FIGURE 1 (CONT'D)

GCCAGGAAGAACCGCTCTCAGATAGTCCTGTTCCAGAAACGACGGTTCCACTTCTTCTGT
TCCATGAGCTGCAGGGCTTGGGTTTCCCCAGAGGAGTTGGAGGAGATCCAGGCTTATGAC
CCAGAGCACTGGGTGTGGGCGCGAGATCGCGCTCACCTTTCCTAGAGCTCCAGGGACCGG
GGAGGCCTGAGGTTCATCGGCCTGAGAGAAGAACACCGGACCCAGGGGAGATGTGGATTTT
CAGCGGGAACCTTTATTCCAATGCTAATGGCAGACACCAGGCAGGAGGAGAGGAACCATT
GTGCAGATCATCTAGAAGAACCTGGACCATTCTTGATGGAGCTGAATACAGTGATCACGT
TGTCCTCCTAGGAGCAGGGGTGGGGGGAGGGGGGTGGGGTCTTCTAGGAGTCTTGGAG
AAAAGTAAGAAACAGGAGCGTTTCCAGTTCACCTTTCCTGCGGCACCACCACCTTT
TTATATTGCTGAATTC AACCTCCCTGGGGCGGAACCTGGAGGTCTGTTTCTTACGGAC
TTGCAGTCCAGGAGGATTTGAAGGCACAATGCAGGGGCTCAGATTGGGACAGAATCTTT
TGTGAAATATCAGTGCCACAGATTGTAAACAGATAGCTTCATGCACACTCTGCATTTTATT
GGTTTGTATGGAAAATGTGCGCCATTGAATTATTATAGATTTATTTCAAATAGTTTGA
AATTGTTGTACTTTTGAAAACATGCTGTTCTGTAGTTTTTTGATGAGAGTTATAGTTGT
TATATATACATAAAGCTAATTTTCTTTTCATTTTAAAGAGACAATTCTTTTATCCTAAA
TATTTTATTATCTTTAAATTTGTTTCTGTATTATTACATGTGCTCCTGAAGCGAGCACTC
TTTTTATCTATGATACTTCCATAATAATCTCTTCTATTTATAGCTATTGGTAGTTCCCA
CCAGAAAAAACATAATTCTGGTGATAGAAATTTTATTTGCTGTTTAGGTTTGTGACTG
AATTGTGAGAATTGAGTTGTGATTTTTAACATGCCTCAGATATATATACTAACACGTCTA
ATATATACTATCTATTTTATTGGTTTATTTTGAAAACATGGGTATAGAATTATTTAAAT
ATTATTTTATTTTATTTAAATATTTATTAATATATTTATTTATTTAAATATTATTACTTT
AAATATTATTTTAAATATTTTGGAAATACTGGTATTTTGAATAGATGCTGTTTCTATAA
AGCTGTGTGATGGATATTATAACTGTTATATACACATACATATAATTTTGTTCCTTTT
TAAGAGAGGATTCTTTTCATCCTAAATCTTTTACCTTTCAATCTTTGTATCTATTATTAC
ACGTGCTGCTGAAGGGAGCATGGTTTTTATCTATGATACTTAGTTAACATATATATTACA
TTTATAGCTATGTAGTAGTTCCCTAAATCTTGTAAAAATAAAATTTTATTTG

Gene 400. >ENST00000312297 cDNA sequence

TCAGCCCCCTGGGGTAGATCCAGCCCCCGCATAGGTCCTTTTGCTGGAAAAGGAAGATG
GAGTGGTGGGACGAATCTGAGGAGTCTGTTGGAGGAGGAGCCACGGAAGGTGCTCGCCCC
GAGCCTGAGGAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGA
CGGCGAGTGTGCTCGTCTGCTCCCTGAGCACCACGAGGCCTTCAACAGGCTGCTTGAGGAT
CCTGTCAATAAAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAGTATCTC
CTGGCTATGGTCATAGCGTATCAGCCGGGCCGGCTTCCCTCCTGGCAATACCAACGCAT
TCATTTCTTCTGGCTCTGTG

Gene 401. >ENST00000323465 cDNA sequence

ATGAACGCCCCCTCCAGCCTTCGAGTCGTTCTTGCTCTTCGAGGGCGAGAAGATCACCATT
AACAAGGACACCAAGGTACCCAATGCCTGTTTATTACCATGAACAAAGAAGACCACACA
CTGGGAAACATCATTAATCACAACTCCTAAAAGACCCGCAAGTGCTATTTGCTGGCTAC
AAAGTCCCCCACCCTTGGAGCACAAGATCATCATCCGAGTGACAGACCACGCCGACTAC
AGCCCCCAGGAAGCCTTTACCAACGCCATCACCGACCTCATCAGCGAGCTGTCCCTGCTG
GAGGAGCGCTTCCGGGTGAGGGCAGGGCCTGGAGGGGCAGACGGGGTGGGCTGGACACTG
GCCCGTGTGCCCAGGCCTGGGACAGCCCTGGCCTGTTTCTTCGGAGGTCTCAGGGAGAG
GCGGCGGTGATGGAAGAACAGGGACTTCCACCAACAGGCTCCAGGACATGTGGACTGAGGG
GCTGTGGAGTCTGGGCCTGTGGCTCCCGTCTGCCCCATGGGACTTCTGTAGTGCTGCAGG
GTCCCTCGGGTGTGTGGGCCAGATCCGGGCGGGACCTACTGTCTTTGGGGGTGCTCT
TCTACGTCCCTTGTGCGGTGATTGGCAAGGCCTGGTCTTCCAGGCCTCTGGGAGGCAGCT
CACCCCAGGGTGGCCACACCTGTTCTTAGCAGGGCGCCTGGGAATCTAGAACAGTTTAG
AGGGGAAAGAGCCACAGCAAAGAAAAGCCGAGGCAGGGTGATCACGAGGTGAGGAGTTCA
AGACCAGCCTGGCAAACATGGTGAAGCCCTGTTTCTACTAAAAATACAAAAATTAGCTAG
GCATGGTGGCATGTGCTGTAGTCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTG
AACC CGGGAGGCGGAGGTTGCAGTGAGCCGAGATTGTGCCACTGCACTCCAGCCTAGGTA
ACAGAGCAGGACTCCATCTCAGTCAATCAATCAATCAATCAATCTCAGCGGTTGAACTAC
CCTTGACATGGTTGAGCTCTGTATCCACACCCAAATGTCATGTCAAATTGTAATTCCCAG
TGTTGTGGGAGGGACCTGGTGGGAGGTGATTGGCTCATGGGGGCCGACTTCCCCCTTGCT
GTTCTCGTGATATTGAGTGAGCGCTTGTGGGATCTGGTTGTTTAAAAGCGTGCAGCCCTC

FIGURE 1 (CONT'D)

CCACTTCACTCTCTCTGTCTCTCCTGCTCCAACATGGCCAGACGTGCCTGCTTCCCCCTTC
GCCTTCTGCCGTGATTGTGTCAGTTTCTTGAGGCCTCCCCAGCCACGCTTCTGTACAGCCT
GCAGAACTGTGAGTCAATTAAACCTCTTTTCTTC

Gene 402. >ENST00000308103 cDNA sequence

GCAAAGCTACAGCACGTCTTTCTCACCGACAGCTATTTAAAATATATTGGTTGGACTCT
GCATGATAAGCACCGAGAAGTCCGCGTGAAGTGCCTGAAGGCTCTGAAAGGGCTGTACGG
TAACCGGGACCTGACCGCACGCCTGGAGCTCTTCACTGGCCGCTTCAAGGACTGGATGGT
TTCCATGATCGTGGACAGAGAGTACAGTGTGGCAGTGGAGGCCGTGAGATTACTGATACT
TATCCTTAAACTTTTCTACCTTGAGTGCAGATAAGAACGATGGGTGGAAGAGAGCAACG
CCAGAGCCCAGGCGCCAGAGGACTTTCTTCCAGCTTCTGCTGTCTTCTTTGTGGAGAG
CAAGCTCCACGACCACGCTGCTTACTTAGTAGACAACCTGTGGGACTGTGCAGGGACTCA
GCTGAAGGACTGGGAGGGTCTGACAAGCCTGCTGCTGGAGAAGGACCAGAGCACGTGCCA
CATGGAGCCAGGGCCAGGGACCTTCCACCTCCTAGGGTGAAACAGGAGAGATTGCTTGC
TTCACTTGTACAAGGCAGGAACGGTGGCATGGCGTGGGGGAACTTGGAGTTGGAAGGTG
GCTAATCTTTGATTCTATGTTTTTGTATCCTCCTGGCACTCCAGACCTGGGTGATATGCAG
GAGAGCACACTGATAGAAATCCTTGTGTCCAGTGGCCAGCAACTCCTGCCTCAGCCTCCC
GAGCAGCTGGGACTACAGGTGCCCCGCCACACGCCCCGGCTAACTTTTTTGTATTTTTAGT
AGAGACGGGTTTTACCGTGTTAGCCAGGATGGTCTTGATCTCTTGACCTTGTGATCCAC
CTGCCTCATCATCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCAGCATGTTA
GACAATTTTTAATTCATCCTCTCTGTGCTGTTGTTTTCTCAGCTGTGAAAGGAATATTCT
GGTGGGGACAAGGTTACAGAGTTGCTGAGAGGGTCTCATGACATGAAGGTACTGGCCTTG
GCACAGTGCCTGGGGGGGCGGGGACTCCGCACATGCCTGTGATGTACAGTTACTGTGAG
TTCACAGCGAACCTTCCCTCCTTTTCTGTTGACTTTCCCACTCCTGTAAACCATCCCT
CCCTCCCTTCTTCTCTCTCTCTCTCTCACTCACGCACACGACACACACACACACAC
TCCATTCACTGTCTCCATGACTCTGGAGTAAACTAACGTCTCGAGTTGC

Gene 403. >ENST00000302215 cDNA sequence

GGAGGGCGAGTGGCGAGCAGGGGCCTCGGCCGCCACCCACACGCCCCGAAGCGTGCTCGT
CCCCCGCGCGGGCTCCCGGCCCGCCGCTCGGCCATCGGCTGCTCCCCGGTGGCCAGG
CCTCGGACTCCGCGGCCGGCCCGCGCGGCCAGCGCCCTCAGGGATCATGGCCAGGTA
GCAGTGTCCACCCTGCCTGTTGAAGAAGAGTCTCTCCTCAGAGACCAGGATGGTGGTGACA
TTCCTCGTGTCTGCCCTCGAATCCATGTGTAAAGAACTGGCCAAGTCCAAGGCAGAAGTG
GCCTGCATCGCAGTGTAAGAAACAGACGTGTTTGTGCTCGGAACCGAGAGAGGATGCGCT
TTTGTTAATGCCAGGACGGATTTTCAGAAAGATTTTGCAAAATACTGCGTTGCAGAGGGA
CTGTGTGAGGTGAAACCTCCCTGCCCTGTGAACGGGATGCAGGTCCACTCGGGCGAAACG
GAAATACTCAGGAAGGCAGTGGAGGACTATTTCTGCTTTTGTATGGTAAAGCCTTAGGG
ACAACAGTGATGGTGCCTGTTCCCTATGAGAAGATGCTGCGAGACCAGTCCGCTGTGGTA
GTGCAGGGGCTTCCGGAAGGCGTTGCCTTTCAACAACCTGAGAATTACGACCTTGCAACC
CTGAAATGGATTTTGGAGAACAAAGCAGGGATTTCAATCATATAAATAGACCCTTCTTA
GGACCAGAGAGTCAGCTGGGTGGCCCTGGGATGGTAACAGATGCGGAGAGATCCATAGTA
TCAACCAAGTGAAAGCTGCGGCCCATCAATGTGAAAACTGAACCCATGGAAGATTCTGGC
ATTTCACTGAAAGCAGAAGCTGTCTCAGTCAAGAAAGAATCAGAAGATCCTAATTACTAT
CAATATAATATGCAAGGAAGCCACCTTCTTCCAAGCAATGAAGTAATAGAAATGGAA
TTACCAATGGAAGATTCCACTCCGCTGGTCCCTTCAGAAGAACCAATGAGGACCCTGAA
GCCGAGGTGAAAATCGAAGGAAACAAAATTCATCCAGTGTACAAATTCTGCAGCAGGT
GTTGAAGATCTTAACATCGTTCAAGTGACTGTTCCAGATAATGAGAAGGAAAGATTATCA
AGCATTGAAAAGATTAAACAGCTAAGAGAACAAAGTTAATGACCTCTTTAGCCGAAAATTT
GGTGAAGCAATTGGCGTGGATTTCCCTGTGAAAGTTCCCTACAGGAAGATCACATTCAAC
CCTGGCTGTGTGGTGATTGATGGCATGCCCCGGGGGTGGTATTCAAGGCCCCCGGCTAT
CTGGAAATCAGTTCATGAGGAGGATCTTGGAGGCAGCTGAGTTTATCAAATTCACAGTC
ATCAGGCCGCTTCCAGGGCTTGAGCTCAGTAATGTGGGAAAACGCAAGATAGACCAGGAG
GGCGTGTGTTTCAAGAAAAGTGGGAGAGAGCGTATTTCTTCTGGAAGTACAGAATATT
CCAACATGTCTCATATGCAAAACAAAGCATGTCTGTGTCAAAGAATATAACCTAAGACGC
CACTATCAAACCAATCACAGCAAGCATTATGACCAGTATATGGAAAGAATGCGTGACGAG
AAGCTTCACGAGCTGAAAAAAGGGCTCAGGAAGTATCTCTTAGGCTTGTGAGACCCGAG

FIGURE 1 (CONT'D)

TGTCCCGAGCAAAAAACAAGTGTGTTGCAACCCCAAGTCCAACCCAGAAATCCCCCGTGCAG
 CCTGTAGAGGACCTAGCTGGGAACCTTATGGGAGAAGTTACGTGAAAAAATCAGGTCTTTT
 GTGGCATATTCTATCGCAATCGATGAGATCA CGGATATAAATAATACCA CCCAGTTGGCC
 ATATTTCATCCGTGGTGTGATGAGAATTTTCGATGTGTCCGAAGAACTTCTGGACA CGGTG
 CCCATGACGGGTACAAAATCTGGCAACGAGATCTTTTCGCGTGTTGAGAAGAGCCTGAAA
 AAGTTCTGTATCGACTGGT CGAAATTAGTAAGCGTGGCCTCCACTGGCA CCCAGCGATG
 GTGGATGCCAATAACGGGCTTGT CAAAACTGAAGTCCAGGGTGGCGA CGTTCTGCAAG
 GGTGCGGAACCTGAAGTCCATCTGTTGTATAATTTCATCCGGAATCACTCTGTGCTCAGAAG
 TTGAAGATGGACCACGTTCATGGACGTGGTAGTGAAGTCCGTGAACTGGATATGCTCCCGG
 GGACTGAAACACAGTGAGTT CACAACCTTGCTCTATGAGCTGGACAGCCAGTATGGTAGC
 CTCCTGTACTACACGGAGATTAAGTGGCTCAGTCGCGGGCTCGTGCTAAAGAGATTTTTTC
 GAATCCTTGGAAGAAATCGACTCCTTCATGTTCATCCAGAGGGAAACCCCTGCCTCAACTG
 AGCTCCATAGATTGGATCCGAGACCTGGCCTTCTTGTTGACATGACGATGCATCTGAAC
 GCTTTGAACATCTCTCTCCAAGGACACTCCCAAATCGTCACGCAGATGTATGACCTGATC
 CGGGCGTTCTTAGCAAAACTGTGCCTCTGGGAGACTCATTTGACGAGGAATAATCTGGCC
 CACTTTCCACCCCTGAAATTGGCTTCCAGAAATGAAAGCGATGGCCTGAACTACATTCCC
 AAAATCGCGGAACTCAAGACCGAATTCAGAAAAGGCTGTCTGATTTCAAACCTCTACGAA
 AGCGAACTGACTCTGTTTCAGCTCCCGTTCTCCA CGAAGATCGACAGTGTGCA CGAGGAG
 CTCCAGATGGAGGTTATCGACCTGCAATGCAACA CGGTCTGAAGACGAAATACGACAAG
 GTGGGAATACCAGAATTCTACAAGTACCTCTGGGGTAGCTACCCGAAATACAAGCA CCAT
 TGCGCAAAGATTCTTTCCATGTTCTGGGAGCACCTACATCTGCGAACAGCTGTTCTCCATT
 ATGAAACTGAGCAAAACAAAATACTGCTCCCAGTTAAAGGATTCCCAGTGGGATTCTGTA
 CTCCACATCGCAACGTGATGGAGAGAAAACCTCTGGCAGGGCCCTATGGTGGGAAAGGCT
 GGAGTCTTCTAGTCCCAAGGGATTGGGAGATGACAAAATGAATTTTTTTTTTCTTTTTTGA
 GATGGAGTCTTGCTCTGTGCGCCAGGTTGGAGTGCAGTGGCGTGATCTCGGCTTACTGCA
 ACTTCCAGCTCCTGGGTT CGAACGATTCTCCTGCCTCAGCCTCCCGAGCAGCTGGGACTA
 CAGGCGTGCGCCACCATGCCTGGCTAATTTTTGTATTAGTAGAGATGAGGTTTCACCATG
 TTGGCCAGGCTGGTCTCCAACCTCCTGACCTCAGGTGATCCACCTGCCTCGACCTCAAAA
 GTGCTGGGATTACAGGCATGAACCACTGTGCCCAGCTGACAAAATGAGTTCTTAAACTTT
 TTTTTTTTTTCAGTTTTTTTTTCCACTTTGAATCAGAAATATAATCTGCAGTATCATACTTG
 TTTATATTACATTGTGTGCCTCACTATTCAATAAAAATCAAGAAAGTTTTATTGT

Gene 404. >ENST00000318547 cDNA sequence

GAGAGCTGAGAGCTGGAGGTGAGCTGGGCTCGCGGTGCGCCCTCTCGCGCGCCCTCTTTG
 AGAACACGGCTTCCAACCTCCCTGGAAATGGGGGGAACATGGCCGAGGCGCGTGGCGAG
 GTCA CCTCGTGGAGGCCCCGGAGCGGCATCCTCAGCGCCCAGCGATCCGGTGCCATTA
 GATTTCTTTAGTACAGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCAT
 CAGATTTGCTCTGGGCCGGTAGTACTGAGTCTAAGCACTGCGGTGAAGAAGATGGTAGAA
 AACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAGCTTAAGGACTATGGAATGGAT
 CTCATTGAAGTTTTCAGGCAATGGATGTGGGGTAGAAGAAGAAAACTTCGAAGGCTTAATG
 ATGTCACCATTTTCTACCTGCCACGTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATC
 ACGATGGGAAAATCATCCAGAAAACCCCTACCCCCACCCAGAGGGACCAAGTCAGCG
 TGAAGCAGTTATTTTCTACGCTACCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGA
 AGAAACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTGTGAGTTCTTTGAGGGCTCCC
 CAGCCATGCTTCTGTACAGCCTGCAAACTGACTCCTAGAAGTACCCCA CCCCACCCCT
 GCTCCTTGGAGGACAACTGATCACTGTATTGAGCTCTGTCAAGAATGGTCCAGGTTCTT
 CTAGATGA

Gene 405. >ENST00000318568 cDNA sequence

GCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTA
 GTACTGAGTCTAAGCACTGCGGTGAAGAAGATGGTAGAAAACAGTCTGGATGCTGGTGCC
 ACTAATATTGATCTAAAGCTTAAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAAT
 GGATGTGGGGTAGAAGAAGAAAACTTCGAAGGCTTAATGATGTCA CCAATTTCTACCTGCC
 ACGTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGA
 AAACCCCTACCCCCACCCAGACCAAGTCAGCGTGAAGCAGTTATTTTCTACGCTACC
 TGTCTAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCCTTCGCCTTC

FIGURE 1 (CONT'D)

TGCCGTGTCAGTTCCTTGAGGGCTCCCCAGCCATGCTTCCTGTACAGCCTGCAAAAC
 Gene 406. >ENST00000333385 cDNA sequence
 CAGCTCTACATCCTGTAGATTCTCACACCCAGGGCCTCCTTCGGCCTCTTCTCAGGGGAG
 TCTCAGAGCAGGAGCCTCTCTCCCTTGCCAGTGAAAGTCATTCTCCCCTCTCCCATCCA
 CCTCACCCGCAGCCACAATCCTGAGACTTTCCCCCGGGAGGCACACTTCTCCTCGCTGCC
 CTGCTGCTCTCACGGAACCTGTCTGCTTCTCACACTGACATCTGCTCTCTAATCACA
 GAGGATCCTGTCAATTAAGACTCCTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAG
 TATCTCCTGGCTATGGTCATAGCGTATTTTCAGCCGGGCCGGCCTCCCCTCCTGGCAATAC
 CAACGCATTCAATTTCTTCTGGCTCTCTATCTGGCCAATGACATGGAGGAGGACGATGAG
 GCCCCAAACAAAACATCTTCTACTTCTGTACGAGGAGACCCGCTCTCATATACCCTTG
 CTCCGTGAGCTTTGGTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAAGTGC
 TCTCAGATAGCCTTGTTCCGGAAGTATCGGTTCCACTTCTTTTGTTCATGCGCTGCAGG
 GCTTGGGTTTTCCCTGGAGGAGTTGGAAGAGATCCAGGCTTATGACCAGAGCACTGGGTG
 TGGGCGCGAGATCGCGCCACCTTTCTAGAGCTCCAGGGACCGTGGAGGCCTGAGGTCA
 TCGGCCTGAGAGAAGAACACCGGACCCAGGGGAGATGTGGATTTTCAGCAGGAACCTTTAT
 TCCAATGCTAATGGCAGACATCAGGAAGGAGGAGAGGAACCAATTTGTGCAGATCATCTAG
 AAGAACCTGGACCATTCTTGACAGAGCTGAATACAGTGATCAGTTGTCTCCAAGGAGC
 AGGGGTGGGGTGGGGTACTTCTAGGAGTCTTGGAGAAAAGTAAGAAACAGGAGTGTTC
 CCAGTTCCACCTTTCTGCGGCACCACTCCCTTTTTATATTGCTGAATGCCAACCTCC
 CTGGGGCGGAACCTGGAGGTCCTGTTTCTTATGGACTTGGTTGCCACAGTCCAGGAGCAT
 TTGAAGGCACAGTGCAGGGGCTCAGATTGGCACAGAATTCTTTGTGAAATATGAGTGCCA
 CAGACTGTAACAGATAGCTTCATGCACACTATGCATTTTATTGGTTTGTGGAAAATGT
 TGGCCATTGAATTATTAATAGGTTTATTTCAAATAGTTTGGAAATTGTTGTACTTTTGAA
 AACATGCTGTTCTGTAGAGTTTTTTGATGAGAGTTATAGTTGTTATATATACCTAAAGA
 TAATTTTCTTTTCATTTTTAAGTGAGAATTCTTTTATCCTAAATCTTTTATTATCTTTA
 AATTTTTTCTGTATTATTATATGTGCTCCTGAAGCGAGCACTCTTTTATCTATGATAC
 TTCCATAATAATCTCTTCTATTTATAGCTATTGGTAGTTCCCCACCAGAAAAAACATAA
 TTCTGGTGATAGAAATTTTTATTTGCTGTTTAGGTTTGTGACTGAATTGTGAGAATTCAG
 TTGTGATTTTTAACATGTCTCAGATATATATACTAACACGTCTAATATATACTATCTATT
 TTATTGGTTTTATTTTGAAAAACATGGGTATAGAATTATTTAAATATTATTTTATTATTG
 AAATATTTATTAAATATGTTTATTTATTTAAATATTATTATTACTTTAAATATTATTTTA
 AATATTTTGGAATACTGGTATTTTTGAATAGATGCTGTTTCTACAAAGCTGTGTGATGG
 GTGTTATAACTGTTGTATACACATACATATAATTTTGTTTTCTTTTTAAGAGAGGATTC
 TTTTCATCCTAAATCTTTTACCTTTCAATCTTTGTATCTATTATTACACGTGCTGCTGAA
 GGGGAGCATGGTTTTTATCTATGATACTTAGTTAACATATATATTACATTTATAGCTATG
 TGGTAGTTCCCCTAAATTCTTGTAATAAATTTTTTATTTG
 Gene 407. >ENST00000328350 cDNA sequence
 TCAGCCCCTGGGGTAGATCCCAGCCCCCACGTAGGTCCCTTGGCTGGAAAAGGAAGAGG
 GAATGTTTGGATGAATCTGATGATGAGCCAGAGAAGGAGCTCGCCCTGAGCCTGAGGAG
 ACCTGGGTGGCGGAGACGCTGTGTGGCCTCAAGATGAAGGCGAAGCGACGGCGAGTGTG
 CTCGTGCTCCCTGAGTACTACGAGGCCTTCAACAGGCTGCTTGAGGATCCTGTCAATAAA
 AGACTCCTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAGTATCTCCTGGCTATGGTC
 ATAGCGTATCAGCCGGGCCGGCCTCCCCTCCTGGCAATACCAACGCATTCAATTTCTTCCT
 GGCTCTGTG
 Gene 408. >ENST00000332301 cDNA sequence
 ATGGAACCTCACATCCTGGAGCACCGGCTGCAAGTTGCCAGCGTCGCCAACGAGAGTATA
 CCGCTGTTACCTACGGCCTGATCAAACCTTGCCCTTCTGTCTCCAAGACCAGGTGCAAG
 TTCTTCAGTCTGACTGAGACGCCAGAGGATTACACTATCATTGTGATGAGGAAGGATTC
 CTAGAGCTGCCCTCCTCGGAGCACCTGAGTGTGGCAGATGCCACCTGGCTGGCCCTGAAC
 GTGGTGTCCGGCGGTGGCAGCTTCTCCAGCTCCAGCCCATCGGCGTGACCAAGATCGCC
 AAGTCAGTCATCGCCCCACTGGCTGACCAGAACATATCCGTGTTTATGCTGTCCACGTAT
 CAGACAGACTTCATCCTGGTGCGCGAGCGGGACCTGCCCTTTGTCACCCACACATTGTCA
 TCAGAGTTCAACATCCTGCGGGTGTCAATGGCGAGACCGTGGCAGCCGAGAACCTCGGC
 ATCACCATATGGCTTCGTGAAGCCCAAGCTGGTCCAGAGGCCAGTCATCCACCCACTGTCC

FIGURE 1 (CONT'D)

AGCCCGAGCAACAGGTTCTGTGTCAACCAGCCTGGACCCCTGACACGCTGCCTGCTGTTGCC
 ACACTCCTCATGGATGTCATGTTCTACTCCAATGGAGTGAAGGACCCCATGGCCACTGGG
 GATGACTGCGGCCACATCCGCTTCTTCTCCTTCTCCCTCATCGAGGGCTACATCTCCCTG
 GTGATGGACGTGCAGACGCAGCAGAGGTTTCTAGTAACTTGCTGTTCAACAAGCGCATCC
 GGAGAGCTCTGGAAGATGGTCCGGATTGGAGGACAGCCCTGGGGTTTGATGAGTGTGGC
 ATCGTGGCCCAGATCTCAGAGCCCTTGGCTGCTGCAGACATCCCAGCCTACTACATCAGT
 ACTTTCAAGTTTGATCATGCACTTGTCCCCGAAGAGAACATCAATGGTGTCTCAGTGCC
 CTGAAGGTCAGCCAAGCAGAGAAGCACTAG

Gene 409. >ENST00000330313 cDNA sequence

ATGAGCCGCGCTGGACCGGGCGGGCGGGACGATGGAATCCACATCCTGGAGCACCGGC
 TGCAAGTTGCCAGCGTCGCCAACGAGAGTATACCGCTGTTCACTGGCCTGATCAAACCT
 GCCTTCTGTCTCCAAGACCAGGTGCAAGTTCTTCAGTCTGACTGAGACGCCAGAGGAT
 TACACTATCATTGTCGATGAGGAAGGATTCTAGAGCTGCCCTCCTCGGAGCACCTGAGT
 GTGGCAGATGCCACCTGGCTGGCCCTGAACGTGGTGTCCGGCGGTGGCAGCTTCTCCAGC
 TCCCAGCCCATCGGCGTGACCAAGATCGCCAAGTCAGTCATCGCCCCACTGGCTGACCAG
 AACATATCCGTGTTTCTGCTGTCCACGTATCAGACAGACTTCATCCTGGTGCGCGAGCGG
 GACCTGCCCTTTGTCACCACACATTGTCTCAGAGTTCACCATCCTG

Gene 410. >ENST00000249269 cDNA sequence

TTCTAGCAGAAATGGCGGCTGCGGCGGCTCGAGTGGTGTGTGTCATCCGCGGCGGGCGGC
 GGCTCTGGGGTTTCAAGGAGAGTCTTCTAATCCGAGGCGCTGCGGGACGGTCATTATATT
 TTGGAGAGAACAGATTAAAGAAGTACACAGGCTGCTACCCAAGTTGTTCTGAATGTTCTTG
 AAACAAGAGTAACATGTTTAGAAAGTGGACTCAGAGTAGCTTCGGAAGACTCTGGGCTCT
 CAACATGCACAGTTGGACTCTGGATTGATGCTGGAAGTAGATACGAAAATGAGAAGAACA
 ATGGAACAGCACACTTTCTGGAGCATATGGCTTTCAAGGCAAGTTGGAGTTTGCATAATT
 TGTTTTTCTCTTTTATTTCAAGGGCACCAAGAAGAGATCCCAGTTAGATCTGGAACCTTG
 AGATTGAAAATATGGGTGCTCATCTCAATGCCTATACCTCCAGAGAGCAGACTGTATACT
 ATGCCAAAGCATTCTCTAAAGACTTGCCAAGAGCTGTAGAAATTCTTGCTGATATAATAC
 AAAACAGCACATTGGGAGAAGCAGAGATTGAACGTGAGCGTGGAGTAATCCTTAGAGAGA
 TGCAGGAAGTTGAAACCAATTTACAAGAAGTTGTTTTTGATTATCTTCATGCCACAGCTT
 ATCAAAATACTGCACTTGGACGGACAATTTTGGGACCAACTGAAAATATCAAATCTATAA
 GTCGTAAGGACTTAGTGGATTATATAACCACACATTATAAGGGGCCAAGAATAGTGCTTG
 CTGCTGCTGGAGGTGTTTCCCATGATGAATTGCTTGACTTAGCAAAGTTTCATTTCCGTG
 ACTCTTTATGCACACACAAAGGAGAAATACCAGCTCTGCCTCCCTGCAAATTCACAGGAA
 GTGAGATTTCGTGTGAGGGATGACAAGATGCCTTTGGCGCACCTTGCAATAGCTGTTGAAG
 CTGTTGGTTGGGCACATCCAGATACAATCTGTCTCATGGTTGCAACACGCTGATTGGCA
 ACTGGGATCGCTCTTTTGGGGGAGGAATGAATTTATCTAGCAAGCTGGCCCAGCTCACTT
 GTCATGGCAATCTTTGCCATAGCTTTTCAGTCTTTCAACACTTCCTACACAGATACAGGAT
 TATGGGGAAGTATATGTTTGTGAATCATCCACTGTTGCAGACATGCTACATGTTGTTT
 AAAAGAATGGATGCGACTCTGTACAAGTGTACAGAAAGTGAGGTTGCACGAGCCAGAA
 ATCTTCTGAAAACAAACATGTTGTTGCAGCTTGATGGTTCAACTCCAATTTGTGAAGATA
 TTGGTAGGCAAATGTTATGCTATAATAGAAGGATTCCCATCCCTGAGCTTGAAGCAAGAA
 TTGATGCTGTGAATGCTGAGACAATTGAGAAAGTATGTACCAATAATTTATAATAGGA
 GTCCAGCTATTGCTGCTGTTGGTCCCATTAAGCAACTACCAGATTTTAAACAGATACGCA
 GTAACATGTGTTGGCTTCGTGATTAAAATGCTCCTAATCAAGATTGTTTGAACACATGTA
 TTTATAAAACAGAGCTAGAGAAAAATAAAAATGAACATGTATATACATTTGGAAATTTGA
 ATTAAATACTGTATCATACTTTCAAAGGATAAAAAGACTACCCCTCTGAAGGTTGTTTTG
 TATTAATGGTCAGTCTTTGTTCTCTGAGAAATTATGTTGGAAGCAGCATACTTTCAAATT
 ATTACCATGAGTATAATTTTAAGAATGAAAATGTTTACAGTATTTTCAGTTTTATTATAA
 AATGCACACACAA

Gene 411. >ENST00000257741 cDNA sequence

ATGGCAAAAATCTCCAGCCCTACAGAGACTGAGCGGTGCATTGAGTCCCTGATTGCTGTT
 TTCCAGAAGTATGCTGGAAAGGATGGTTACAACCGCAATCTCTCCAAGACGGAGTTCCTA
 AGCTTCATGAATACAGAGCTGGCTGCCTTTACAAAGAACGAGAAGGACCCCGGTGTCTT
 GACCACATGAAGAACTGGATGTGAGCAGTGATGGGCAGTTAGATTTCCCAAAATTTCTT

FIGURE 1 (CONT'D)

AATCTGATTGGTGGCCTAGCTGTGGCTTGCCATGACTCCTTCCTCAAGGCTGTCCCCCTCC
CAGAAGTAG

Gene 412. >ENST00000292644 cDNA sequence

GAAGACACCACCGGAAGCAAGGAAGGTGCTGTGTAATCATTAAAGGAGCGGAGGCTTTTGG
AGCTGCTAAAATGCCGGATTACCTCGGTGCCGATCAGCGGAAGACCAAAGAGGATGAGAA
GGACGACAAGCCCATCCGAGCTCTGGATGAGGGGGATATTGCCTTGTTGAAAACCTTATGG
TCAGAGCACTTACTCTAGGCAGATCAAGCAAGTTGAAGATGACATTTCAGCAACTTCTCAA
GAAAATTAATGAGCTCACTGGTATTAAAGAACTCTGACACTGGCCTGGCCCCACCAGCACT
CTGGGATTTGGCTGCAGATAAGCAGACACTCCAGAGTGAACAGCCTTTACAGGTTGCCAG
GTGTACAAAGATAATCAATGCTGATTTCGGAGGACCCAAAATACATTATCAACGTAAAGCA
GTTTGCCAAGTTTGTGGTGGACCTTAGTGATCAGGTGGCACCTACTGACATTGAAGAAGG
GATGAGAGTGGGCGTGGATAGAAATAAATATCAAATTCACATTCCATTGCCTCCTAAGAT
TGACCCAAACAGTTACCATGATGCAGGTGGAAGAGAAACCTGATGTCACATACAGTGATGT
TGGTGGCTGTAAGGAACAGATTGAGAACTGCGAGAAGTAGTTGAAACCCCATTAATTCA
TCCAGAGAGGTTTGTGAACCTTGGCATTGAGCCTCCCAAGGGCGTGCTGCTCTTTGGTCC
ACCCGGTACAGGCAAGACACTCTGTGCGCGGGCAGTTGCTAATCGGACTGATGCGTGCTT
CATTTCGAGTTATTGGATCTGAGCTTGTACAGAAATACGTTCGGTGAGGGGGCTCGAATGGT
TCGTGAACTCTTTGAAATGGCCAGAACAAAAAAGCCTGCCTTATCTTCTTTGATGAAAT
TGATGCTATTGGAGGGGCTCGTTTTGATGATGGTGCTGGAGGTGACAATGAAGTGCAGAG
AACAAATGTTGAACTGATCAATCAGCTTGATGGTTTTGATCCTAGAGGCAATATTAAAGT
GCTGATGGCCACTAACAGACCTGATACTTTGGATCCAGCACTGATGAGGCCAGGGAGATT
GGATAGAAAAATTGAATTTAGCTTGCCCGATCTAGAGGGTCGGACCCACATATTTAAGAT
TCACGCTCGTTCAATGAGTGTGAAAGAGATATCAGATTTGAACTGTTAGCACGACTGTG
TCCAAATAGCACTGGTGCTGAGATTAGAAGCGTCTGCACAGAGGCTGGTATGTTTGCCAT
CAGAGCACGGCGAAAAATTGCTACCGAGAAGGATTTCTTGAAGCTGTAAATAAGGTCAT
TAAGTCTTATGCCAAATTCAGTGCTACTCCTCGTTACATGACATACAACCTGAACCCCTGAA
GGCTTTCAAGTGAAAACTTTAAATTGGAATCCTAACCTTATATAGACTTGTTAATAACCA
ATTCTATAAACAAATAAATGGCTTCAAATTTGTATGCTTTTTTCCATATCTCTTCTGTAA
TATAATAAAAGGTGATTTCTAATGTT

Gene 413. >ENST00000249270 cDNA sequence

ATGCTGCTTCTGCCAAGCGCCGCGGACGGCCGGGGCACCGCCATCACCCACGCTCTGACC
TCTGCCTCTACACTCTGTCAAGTTGAACCTGTGGGAAGATGGTTTGAAGCTTTTGTAAAG
AGGAGAAACAGAAATGCTTCTGCCTCTTTTTCAGGAACTGGAGGATAAGAAAGAGTTATCC
GAGGAATCAGAAGATGAAGAATTGCAGTTGGAAGAGTTTCCCATGCTGAAAAACACTTGAT
CCCAAAGACTGGAAGAACCAAGATCATTATGCAGTTCTTGGACTTGGCCATGTGAGATAC
AAGGCTACACAGAGACAGATCAAAGCAGCTCATAAAGCAATGGTTTTAAACATCACCCA
GACAAACGGAAAGCAGCTGGTGAACCAATAAAAGAAGGAGATAATGACTACTTCACTTGC
ATAACTAAAGCTTATGAAATGTTATCTGATCCAGTGAAAAGACGAGCATTTAACAGTGTA
GATCCTACTTTTGATAACTCAGTTCCTTCTAAAAGTGAAAGCAAAGGATAATTTCTTCGAA
GTGTTTTACCCAGTGTTTGAAGGAATTCCAGATGGTCAAATAAAAAAATGTTCTTAAA
CTTGGTGATATGAATTCATCATTTTGAAGATGTAGATATATTTTATTCTTTCTGGTATAAT
TTTGATTCTTGGAGAGAATTTTCTTATTTAGATGAAGAAGAAAAAGAAAAAGCAGAATGT
CGTGATGAGAGGAGATGGATTGAAAAGCAGAACAGAGCAACAAGAGCAAAAGAAAAA
GAAGAAATGAACAGAATAAGAACATTAGTTGACAAATGCATACAGCTGTGATCCAAGGATA
AAAAAGTTCAAGGAAGAAGAAAAAGCCAAGAAAGAAGCAGAAAAGAAAGCAAAAGCAGAA
GCTAAACGGAAGGAGCAAGAAGCTAAAGAAAAAACAAGACAAGCTGAATTAGAAGCTGCT
CGGTTAGCTAAGGAGAAAGAAGAGGAGGAAGTCAGACAGCAAGCATTGCTGGCAAAGAAG
GAAAAAGATATCCAGAAAAAAGCCATTAAAGAAAGGAAAGGCAAAAACTTCGAAACTCATGC
AAGATAGAAGAAATAAATGAGCAAATCAGAAAAGAGAAAGAGGAAGCTGAGGCTCGTATG
CGACAAGCATCTAAGAACACAGAGAAATCAACTGGTGGAGGTGGAATGGAAGTAAAAAT
TGGTCAGAAGATGATCTACAATTACTAATTAAAGCTGTGAATCTGTTCCCTGCTGGAACA
AATTCAAGATGGGAAGTTATTGCTAATTACATGAACATACATTCTTCTCTGGAGTCAAA
AGAACTGCCAAAGATGTTATTGGCAAAGCAAAGAGTCTCCAAAACTTGACCCCTCATCAA
AAAGATGACATAAAATAAAAGGCATTTGATAAGTTCAAAAAAGAACATGGAGTGGTACCT

FIGURE 1 (CONT'D)

CAAGCAGACAACGCAACGCCTTCAGAACGATTTGAAGGTCCATATACAGACTTCACCCCT
TGGACAACAGAAGAACAGAAGCTTTTGGAAACAAGCTTTGAAAACATACCCAGTAAATACA
CCTGAAAGATGGGAAAAAATAGCAGAAGCGGTGCCTGGCAGGACAAAGAAGGACTGCATG
AAACGATACAAGGAACCTTGTGAGATGGTAAAAGCAAAGAAAGCTGCTCAAGAACAAGTG
CTGAATGCAAGTAGAGCCAAGAAATGACAATCTTTGTTGTGTGTGCATTTTTATAATAAA
ACTGAAAATACTGT

Gene 414. >ENST00000222539 cDNA sequence

AAAGCAAAGACAAGCTGAATTAGAAGCTGCTCGGTTAGCTAAGGAGAAAGAAGAGGAGGA
AGTCAGACAGCAAGCATTGCTGGCAAAGAAGGAAAAAGATATCCAGAAAAAGCCATTAA
GAAGGAAAGGCAAAACTTCGAACTCATGCAAGACCTGGAATCATTTTTCTGATAATGA
GGCAGAGCGGGTTAAAATGATGGAAGAAGTGGAAAACTTTGTGATCGGCTTGAAGTGGC
AAGCTTACAGTGCTTGAATGAAACACTCACATCATGCACAAAAGAAGTAGGAAAGGCTGC
TTTGGAAAAACAGATAGAAGAAATAAATGAGCAAATCAGAAAAGAGAAAGAGGAAGCTGA
GGCTCGTATGCGACAAGCATCTAAGAACACAGAGAAATCAACTGGTGGAGGTGGAATGG
AAGTAAAAATTGGTCAGAAGATGATCTACAATTACTAATTAAAGCTGTGAATCTGTTCCC
TGCTGGAACAAATTCAAGATGGGAAGTTATTGCTAATTACATGAACATACATTCTTCCTC
TGGAGTCAAAAGAACTGCCAAAGATGTTATTGGCAAAGCAAAGAGTCTCCAAAACTTGA
CCCTCATCAAAAAGATGACATAAATAAAAAGGCATTTGATAAGTTCAAAAAGAACATGG
AGTGGTACCTCAAGCAGACAACGCAACGCCTTCAGAACGATTTGAAGGTCCATATACAGA
CTTCACCCCTTGGACAACAGAAGAACAGAAGCTTTTGGAAACAAGCTTTGAAAACATACCC
AGTAAATACACCTGAAAGATGGGAAAAAATAGCAGAAGCGGTGCCTGGCAGGACAAAGAA
GGACTGCATGAAACGATACAAGGAACCTTGTGAGATGGTAAAAGCAAAGAAAGCTGCTCA
AGAACAAGTGCTGAATGCAAGTAGAGCCAAGAAATGACAATCTTTGTTGTGTGTGCATTT
TTATAATAAAACTGAAAATACTGT

Gene 415. >ENST00000320297 cDNA sequence

ATGAAGAAACAAGGAGTAAGCCCAAAGCCGCTGCAATCTTCCCGCCCCAGCCCGTCTAAG
CGGCCCTGCGGGGCTCCCCCGCCCGGGAGCGGGAGGTGGAAAAGTCGGCCCTAGGCGGC
GGGAAACTGCCGGGGGGCGCCAGGAGGTCTCCCCGGGGAGGATCCCAAATCTGAAAAAG
CGAAAAGGCTTGGAGCTAAAGGTGGTGGCCAAGGCCCTTCTCGGCCCCCTTCCAGTTCGTC
TGTAATTCCTGGCGCAGCTCCGGGAAGAGGTGCACGAACTGCAGGCGCGGTGGTTCCCC
AGCAGAACCCTCTGCATCGCCGTCTTTGTGGCAATTCTACATTGGTAAGATGTAGT

Gene 416. >ENST00000306389 cDNA sequence

GTATACTCTATTTTTTTTTTTTTTACAGTGGTACTGAACTGGGAGGTCTTATTACAGTA
CTGTGCTTCTTTTCAACCATGGAGAGGCCACCTGTGTGATGTGGACACCACCTCTCCGT
GAAAGTTTTTCTATCTTTTCTTGTACTTCAGATGTATGTTTTAACTTTGATTCTCAGG
ACCTCAAGCAATGATAGAAGGCCCTTCATTGCACTCTGTCTTTCCAATGTTGCTTTTATG
CTTCCCTGGCAATTTGCTCAGTTTATACTTTTTACACAGATAGCATCATTATTTCCCATG
TATGTTGTGGGATACATTGAACCAAGCAAATTTAGAAAGATCATTTATATGAACATGATT
TCAGTTACCTTAGTTTCATTTTGATGTTTGGAAATTCAATGTACTTATCTTCTTATTAT
TCTTCATCTTTGTTAATGACATGGGCAATAATTCTAAAGAGAAATGAAATTCAAAACTG
GGAGTATCTAACTCAACTGCTGGCTAATTCAAGGTAGTGCTGGTGGTGTGGAACAATC
ATTTTGAATTTCTGACATCTAAAATCTTAGGCGTTTCAGACCATATTTGCCTGAGTGAT
CTTATAGCAGCCGGAATCTTAAGGTATACAGATTTTGATACTTTAAAATACACCTGTTCT
CCCGAATTTGACTTCATGGAAAAAGCGACTCTGCTGATATACACAAAGACATTATTGCTT
CCAGTTGTTATGGTGATTACATGTTTTATCTTTAAAAGACTGTTGGTGATATTTCCGCT
GTTTTAGCTACAAACGTTTATCTAAGAAAAAGCTCCTTGAACACAGTGAGCTGGCTTTT
CACACATTGCAGTTGTTAGCATTACTGCCCTTGCCATTTTAATTTTGAGGCTAAAGCTG
TTTTTGACACAGCACATGTGTGTTATGGCTTCCTTGATATGCTCTTGACGGCTCTTTGGC
TGGCTTTTTCGCAGAGTTCGCAGAGAGAATGTTATCTTTGGCATTCTAACAGTGATGTCA
ATACAAGGTTATGCAAACCTCTGTAATCAATGGAGCATAACAGGAGAATTTAATGATTTG
CCTCAGGAAGAACTTTACAGTGGATCAAATACAATACCGTACCAGATGCTGTCTTTGCA
GGTGCCATGCCTACAATGGCAAGTGTCAAGCTGTCTACACTTCATCCCATTGTGAATCAT
CCACATTACGAAGATGCAGACTTGAGGGCTTGGACAAAAATAGTTTATTCTACATATAGT
GGAAATCTGCCAAAGAAGTAAGAGATAAATTGTTGGAGTTACATGTGAATTATTATGTT

FIGURE 1 (CONT'D)

TTAGAAGAGGCATGGTGTGTTGTGAGAACTAAGCCTGGTTGCAGCATGCTTGAAATCTGG
GATGTGGAAGACCCCTTCCAATGCAGCTAACCCCTCCCTTATGTAGCGTCCTCCTTGAGCCG
AGATTGTGCCACTGCACTCCAGCCTGGGCGACAAATCAAGACCCCGTCTCCAAAAA
AAAAACAAAACCTTGATTGGGATCCAAAATCATACAACCTATACACTAAAATCAGTGAATAT
TACCTTATGTAAATTAAAAATTAGGAAATCAAAAGAAAAGCATACATATAAAAAACAGTT
TTTTCTAAGC

Gene 417. >ENST00000317716 cDNA sequence

AGTGTACACAGTCCTGGAGGAACTGAGTCCAGGAACCATCGTGGCCAATATCACAGCGGA
GGATCCTGATGATGAAGGTTTTCCAGCCACCTCCTCTACAGCATTACCACTGTTAGCAA
ATATTTTCATGATAAATCAGTTGACTGGTACAATCCAAGTGGCCCAAAGGATAGACCGAGA
TGCAGGTGAATTGAGACAAAATCCACCATTTCCTGGAAGTTCTAGTGAAGGACAGACC
ATATGGGGGTGAGGAGAATCGCATCCAGATAACCTTCATTGTGGAAGACGTCAACGACAA
TCCTGCCACATGCCAAAAGTTACCTTCAGCATTATGGTGCCGAAAGAACAGCCAAGGG
GACGTTGCTTCTTGACCTAAACAAGTTCTGCTTTGATGATGACAGTGAGGCACCAAA
CAGATTCAACTTCACCATGCCATCTGGAGTGGGGAGCGGCAGCAGATTTTTACAGGATCC
AGCTGGCTCTGGGAAGATTGTGCTGATTGGTGATCTAGACTACGAAAATCCAAGTAACCT
AGCAGCCGGCAATAAATATACGGTGATAATCCAGGTGCAGGATGTGGCCCCCCTTACTA
TAAAAGCAAGTATCATTTTGTGTTTATTTTCATGATTATAACGTCTACGTTTATATCCTAAC
AAGCCAGAAAATGAGTTTCCTCTCATTTTTGATAGGCCATCCTATGTATTTGATGTGTC
AGAAAGAAGGCGCCAGGGTCACCTATCAGGTCCTGAGGAAAAACGTTTACTCTCCAT
CTGCATGGTACGTGCCGTTTTGTCATCACTTTGGGCTCCATATTGCTTCTGGGTCTCCTCG
TGTACCTGGTCGTCTATTGGCCAAAGCCATCCACAGACACTGCCCTGCAAGACTGGGA
AGAAACAAGGAACCTCTGTAAGTTGCCAAAACGAAGACTGCAGAGAGAGACGTCGTGGTGG
AACTATCCAGATGAACACTATCTTTGATGGAGAAGCCATAGATCCAGGTGACCGGGGAA
ACATATGAATTCAACTCAAAAACCTGGAGCCAGAAAGTGGAAAGATCCACTAACCCAAATG
CCAAAATGGAAAGAGTCCAGCCACCAGGGAGCTGCCCCACGCAGAGTCACTGCTGGGGAA
GGGATGGGGTCACTGAGAAGTGCCAACTGGGAAGAAGATGAGCTGAGTGGCAAAGCGTGG
GCTGAGGATGCTGGTCTGGGTTCCAGAAATGAGGGTGGCAAGCTGGGCAACCCAAAGAAC
AGAAATCCAGCCTTCATGAACAGGGCTTACCCCAAACCAACCCAGGAAAGTAAACGGGG
TCTAAGGAGGGGCTGTCAATCACTGAGATGCTGCCTCACCCCTAAATTCTATGGGGATGG
TGTGGGCATGGTGTAGGGGGGAAAATGTGGGCTGAGGGGATTGAGACATCCAGGGTCAAA
CATGGGATGTTTTGACAAATTTTTTAAACAAATAGAAAGGGGTTTGATCACATAGTTGCGTG
TTCTGAAATGATACAGGAACATTTTCTATCAGATTTTCAAGTACCTGTGCTTCTGATAA
GCAAGACTGTTAACTTTGGGGTGTGGAATTGTTGTGTTTCTTCTTTGCATTGACTGCTAG
GAAGCTCTATTCTGTTCAACATAGAAAGTTTGTAGGAATTCCTGACATAAATAGTGAAGA
CTATCCTTACATCTGGTTTTCCACCTTATTTTTCTGCCCCTCGTTTTAACATCACCCAGATT
TCTTCAGTTATAAATATGCCATACACCTTTGTAAGTCACTCAAATCTTCTTCAAAAGAA
GCAGAACAGTGAAAAAACAGATGAGTAAGTTAAGAGTTGGTCATCTGGAAAGAAGAAAA
CTCAGTAGGCACCTTCTTTTGTGTTTTCTTGTGGTGTCCGGATCAGCATCCTGCATGTGA
GATTCATCCACGTTGTCTGTCTAGCAGTAGTTTCACTTCTTTCATGGTTATGTCTGGTT
TCATTCTATGATTATATCACAAATTTATCTATTCTACACTTGGGTGGCAGCTGCTTCAGAT
TTTTTACTTTTTAAAAAATATACTTAAAGTGAACCTACAGGCAGGGCATGATGGCTCATGC
CTGTAATGCCAGCACTTTGCCAAGGTGGGCAGATCACCTAAGGTGAGGAGTTCAAGATCA
GCCTGGCCTAGATGGCAAAACCTGTCTCTACTAAAAAATACAAAAATTAGCTTGGTGTG
GTGGTGGGCACATGTAATCCAGCTACTTGGGAGGCTGAGGTAGGGAGAACTGCTTAAAC
CTGAGAGGTGGAGGTTACAGTGAGTTGAGATTGTGCCACTGCACTCTAGCCTGGGTGACA
AAGCAAGACTCCATCTCAGAAAAAATAAAGTGAATTACAACACT

Gene 418. >ENST00000265755 cDNA sequence

TAAATGGCAGCCAATGGAGGGTGGTGTGCGCGGGGCTGGGATTAGGGCCGGGGCGAATG
GCTGGCAATCTTACTGGGATTACAGAACAAAGAGCCTCCCCGCGTCCCGCTCTCCGCTC
CTCTCCCCGCGCGCCCCGCCCTCCGCCGAGCCCGCGCGGGGGTGGGGGCCGCGGAGC
GCCAGCCCCCGGCCGCGGCGATTCCCCCCCCGCGCCCCCTCCCGCGCCTCCCTCCCCGC
CCTCGCCGCGCGCGCTCCTCGCCTCCCTCTGCCTCTCCTTCCCCCATTCTCCCGGATTA
ATTAAGGAGGCAGCGGCAGGAGGCTGAGTCTGGCCGCGGGCCGGGGCCGGGGCGCGCT

FIGURE 1 (CONT'D)

GGCAGGAGCGCTTGGGGATCCTCCAAGGCGACCATGGCCTTGCTGGGTAAGCGCTGTGAC
 GTCCCCACCAACGGCTGCGGACCCGACCGCTGGAACCTCGCGTTACCCGCAAAGACGAG
 ATCATCACCAGCCTCGTGTCTGCCTTAGACTCCATGTGCTCAGCGCTGTCCAAACTGAAC
 GCCGAGGTGGCCTGTGTCTGCGTGCACGATGAGAGCGCCTTTGTGGTGGGCACAGAGAAG
 GGGAGAATGTTCTGAATGCCCGGAAGGAGCTACAGTCAGACTTCCTCAGGTTCTGCCGA
 GGGCCCCCGTGGGAAGGATCCGGAGGCAGAGCACCCCAAGAAGGTGCAGCGGGGCGAGGGT
 GGAGGCCGTAGCCTCCCTCGGTCTCCTGGAACATGGCTCAGATGTGTACCTTCTGCGG
 AAGATGGTAGAGGAGGTGTTTGATGTTCTTTATAGCGAGGCCCTGGGAAGGGCCAGTGTG
 GTGCCACTGCCCTATGAGAGGCTGCTCAGGGAGCCAGGGCTGCTGGCCGTGCAGGGGCTG
 CCCGAAGGCCTGGCCTTCGAAGGCCAGCCGAGTATGACCCCAAGGCCCTCATGGCCATC
 CTGGAACACAGCCACCGCATCCGCTTCAAGCTCAAGAGGCCACTTGAGGATGGCGGGCGG
 GACTCGAAGGCCCTGGTGGAGCTGAACGGTGTCTCCTGATTCCCAAGGGGTACAGGGAC
 TGTGGCCTGCATGGCCAGGCCCCCAAGGTGCCACCCAGGACCTGCCCCAACC GCCACC
 TCCTCCTCATGGCCAGCTTCCTGTACAGCACGGCGCTCCCAACCAAGCCATCCGAGAG
 CTCAAGCAGGAAGCACCTTCCTGCCCCCTTGCCCCCAGCGACCTGGGCCTGAGTCGGCCC
 ATGCCAGAGCCCAAGGCCACCGGTGCCCAAGACTTCTCCGACTGTTGTGGACAGAAGCCC
 ACTGGGCCTGGTGGGCCTCTCATCCAGAAGCTCCATGCCTCCAAGCGCATTCTCTTCTCC
 ATCGTCCATGACAAGTCAGAGAAGTGGGACGCCTTCATAAAGGAAACCGAGGACATCAAC
 ACGCTCCGGGAGTGTGTGCAGATCCTGTTTAAACAGCAGATATGCGGAAGCCCTGGGCCTG
 GACCACATGGTCCCCGTGCCCTACCGGAAGATTGCCTGTGACCCGGAGGCTGTGGAGATC
 GTGGGCATCCCGGACAAGATCCCCCTTCAAGCGCCCTGCACTTATGGAGTCCCAAGCTG
 AAGCGGATCCTGGAGGAGCGCCATAGTATCCACTTCATCATTAAAGAGGATGTTTGATGAG
 CGAATTTTTCAGGGGAACAAGTTTACCAAAGACACCACGAAGCTGGAGCCAGCCAGCCCG
 CCAGAGGACACCTCTGCAGAGGTCTCTAGGGCCACCGTCTTGACCTTGCTGGGAATGCT
 CGGTGAGACAAGGGCAGCATGTCTGAAGACTGTGGGCCAGGAACCTCCGGGGAGCTGGGC
 GGGCTGAGGCCGATCAAAATTGAGCCAGAGGATCTGGACATCATTAGGTACCGTCCCA
 GACCCCTCGCCAACCTCTGAGGAAATGACAGACTCGATGCCTGGGCACCTGCCATCGGAG
 GATTCTGGTTATGGGATGGAGATGCTGACAGACAAAGGTCTGAGTGAGGACGCGCGGGCC
 GAGGAGAGGGCCCGTGGAGGACAGCCACGGTGACGTGATCCGGCCCCCTGCGGAAGCAGGTG
 GAGCTGCTCTTCAACACACGATACGCCAAGGCATTGGCATCTCGGAGCCCGTCAAGGTG
 CCGTACTCCAAGTTTCTGATGCACCCGGAGGAGCTGTTTGTGGTGGGACTGCCTGAAGGC
 ATCTCCCTCCGACAGGCCCACTGCTTCGGGATCGCCAAGCTCCGGAAGATTCTGGAGGCC
 AGCAACAGCATCCAGTTTGTCTCATCAAGAGGCCCGAGCTGCTCACTGAGGGAGTCAAAGAG
 CCCATCATGGATAGTCAAGGAACTGCCTCCTCACTTGGCTTCTCTCCCCCTGCCCTGCCC
 CCAGAGAGGGATTCCGGGGACCTCTGGTGGACGAGAGCCTGAAGAGAAGGGCTTTCAA
 GAAAATTATGACGCGAGGCTCTCACGGATCGACATCGCCAACACACTAAGGGAGCAGGTG
 CAGGACCTTTTCAATAAGAAATACGGGGAAGCCTTGGGCATCAAGTACCCGGTCCAGGTG
 CCTTACAAGCGGATCAAGAGTAACCCCGGCTCCGTGATCATCGAGGGGCTGCCCCAGGA
 ATCCCGTTCCGAAAGCCCTGTACCTTCGGCTCCAGAACCTGGAGAGGATTCTTGCTGTG
 GCTGACAAGATCAAGTTCACAGTCACCAGGCCTTTTCAAGGACTCATCCAAAGCCTGAT
 GAAGATGACGCCAACAGACTCGGGGAGAAGGTGATCCTGCGGGAGCAGGTGAAGGAACTC
 TTCAACGAGAAATACGGTGAGGCCCTGGGCCTGAACCGGCCGGTGTGCTGGTCCCTTATAAA
 CTAATCCGGGACAGCCAGACGCCGTGGAGGTACGGGTCTGCCTGATGACATCCCTTTC
 CGGAACCCCAACACGTACGACATCACCGGCTGGAGAAGATCCTGAAGGCCCGAGAGCAT
 GTCCGCATGGTCATCATTAAACAGCTCCAACCCTTTCAGAGAAATCTGCAATGATGCCAAG
 GTGCCAGCCAAAGACAGCAGCATTCCTCAAGCGCAAGAGAAAGCGGTCTCGGAAGGAAAT
 TCCGTCTCCTCTTCTCCTCCTCGTCTTCTCCTCCTCGTCTCTAACC CGGATTAGTGGCA
 TCGGCCAACAGATCTCACTCGTGCAATGGCCAATGTACATGGTGGACTATGCCGGCCTG
 AACGTGCAGCTCCCGGGACCTCTTAATTACTAGACCTCAGTACTGAATCAGGACCTCACT
 CAGAAAGACTAAAGGAAATGTAATTTATGTACAAAATGTATATTCGGATATGTATCGATG
 CCTTTTAGTTTTTCCAATGATTTTTTACACTATATTCTGCCACCAAGGCCTTTTT

Gene 419. >ENST00000257701 cDNA sequence

TTTCCCTTTATAGCACCATTGAATCCCAGTCTAACAGAAGTACTGCGAATCTTGTGGCC
 TCATTCTGAACAAAAGGGATTAGAGAAGAAAAATCTCTTGATATAAGGCTTGAAAGCAAG

FIGURE 1 (CONT'D)

GGCAGGCAATCTTGGTTGTGAATATTTTTCTGATTTTTCCAGAAATCAAGCAGAAGATTGA
GCTGCTGATGTCAGTTAACTCTGAGAAGTCGTCCTCTTCAGAAAGGCCGGAGCCTCAACA
GAAAGCTCCTTTAGTTCCTCCTCCTCCACCGCCACCACCACCACCACCGCCACCTTTGCC
AGACCCACACCCCGGAGCCAGAGGAGGAGATCCTGGGATCAGATGATGAGGAGCAAGA
GGACCCTGCGGACTACTGCAAAGGTGGATATCATCCAGTGAAAATTGGAGACCTCTTCAA
TGGCCGGTATCATGTTATTAGAAAGCTTGGATGGGGGCACTTCTCTACTGTCTGGCTGTG
CTGGGATATGCAGGGGAAAAGATTTGTTGCAATGAAAGTTGTAAAAAGTGCCAGCATTAT
TACGGAGACAGCCTTGGATGAAATAAAATTGCTCAAATGTGTTGAGAAAGTGATCCCAG
TGACCCAAACAAAGACATGGTGGTCCAGCTCATTGACGACTTCAAGATTTTCAGGCATGAA
TGGGATAACATGTCTGCATGGTCTTGAAGTACTTGGCCACCATCTCCTCAAGTGGATCAT
CAAATCCAATATCAAGGCCTCCAGTACGTTGTGTGAAGAGTATCATTTCGACAGGTCCT
TCAAGGGTTAGATTACTTACACAGTAAGTGCAAGATCATTCACTACTGACATAAAGCCGGA
AAATATCTTGATGTGTGTGGATGATGCATATGTGAGAAGAATGGCAGCTGAGGCCACTGA
GTGGCAGAAAGCAGGTGCTCCTCCTCCTTCAGGGTCTGCAGTGAGTACGGCTCCACAGCA
GAAACCTATAGGAAAAATATCTAAAAACAAAAAGAAAAAACTGAAAAAGAAACAGAAGAG
GCAGGCTGAGTTATTGGAGAAGCGCCTGCAGGAGATAGAAGAATTGGAGCGAGAAGCTGA
AAGGAAAATAATAGAAGAAAACATCACCTCAGCTGCACCTTCCAATGACCAGGATGGCGA
ATACTGCCAGAGGTGAAACTAAAAACAACAGGATTAGAGGAGGCGGCTGAGGCAGAGAC
TGCAAAGGACAATGGTGAAGCTGAGGACCAGGAAGAGAAAGAAGATGCTGAGAAAGAAAA
CATTGAAAAAGATGAAGATGATGTAGATCAGGAACCTTGCGAACATAGACCCTACGTGGAT
AGAATCACCTAAACCAATGGCCATATTGAGAATGGCCATTCTCACTGGAGCAGCAACT
GGACGATGAAGATGATGATGAAGAAGACTGCCCAAATCCTGAGGAATATAATCTTGATGA
GCCAAATGCAGAAAGTGATTAACATATAGCAGCTCCTATGAACAATTCAATGGTGAATT
GCCAAATGGACGACATAAAATTTCCCGAGTCACAGTTCCAGAGTTTTCCACCTCGTTGTT
CTCTGGATCCTTAGAACCTGTGGCCTGCGGCTCTGTGCTTTCTGAGGGATCACCCTTAC
TGAGCAAGAGGAGAGCAGTCCATCCCATGACAGAAGCAGAACGGTTTTCAGCCTCCAGTAC
TGGGGATTTGCCAAAAGCAAAAACCCGGGCAGCTGACTTGTTGGTGAATCCCCTGGATCC
GCGGAATGCAGATAAAATTAGAGTAAAAATTGCTGACCTGGGAAATGCTTGTTGGGTGCA
TAAACACTTCACGGAAGACATCCAGACGCGTCAGTACCGCTCCATAGAGGTTTTAATAGG
AGCGGGGTACAGCACCCCTGCGGACATCTGGAGCACGGCGTGTATGGCATTTCAGCTGGC
AACGGGAGATTATTTGTTTGAACCAACATTCTGGGGAAGACTATTCCAGAGACGAAGACCA
CATAGCCACATCATAGAGCTGCTAGGCAGTATTCCAAGGCACTTTGCTCTATCTGGAAA
ATATTCTCGGGAATTCTTCAATCGCAGAGGAGAACTGCGACACATCACCAGCTGAAGCC
CTGGAGCCTCTTTGATGTACTTGTGGAAAAGTATGGCTGGCCCCATGAAGATGCTGCACA
GTTTACAGATTTCTGATCCCGATGTTAGAAATGGTTCCAGAAAAACGAGCCTCAGCTGG
CGAATGCCTTCGGCATCCTTGGTTGAATTCTTAGCAAATTCTACCAATATTGCATTCTGA
GCTAGCAAATGTTCCCAGTACATTGGACCTAAACGGTGACTCTCATTCTTTAACAGGATT
ACAAGTGAGCTGGCTTCATCCTCAGACCTTTATTTTGTCTTTGAGGTACTGTTGTTTGACA
TTTTGTCTTTTTGTGCACTGTGATCCTGGGGAAGGGTAGTCTTTTGTCTTCAGCTAAGTAG
TTTACTGACCATTTTCTTCTGGAAAACAATAACATGTCTCTAAGCATTGTTTCTTGTGTTG
TGTGACATTCAAATGTCAATTTTTTTGAATGAAAAATACTTTCCCCTTTGTGTTTTGGCAG
GTTTTGTAACTATTTATGAAGAAATATTTTAGCTGAGTACTATATAATTTACAATCTTAA
GAAATTATCAAGTTGGAACCAAGAAATAGCAAGGAAATGTACAATTTTATCTTCTGGCAA
AGGGACATCATTCCTGTATTATAGTGTATGTAAATGCACCCTGTAAATGTTACTTTCCAT
TAAATATGGGAGGGGGACTCAAATTTAGAAAAGCTACCAAGTCTTGAGTGCTTTGTAGC
CTATGTTGCATGTAGCGGACTTTAACTGCTC CAAGGAGTTGTGCAAACTTTTCATTCCAT
AACAGTCTTTTCACATTGGATTTTAAACAAAGTGGCTCTGGGTTATAAGATGTCATTCTC
TATATGGCACTTTAAAGGAAGAAAAGATATGTTTCTCATTCTAAAATATGCATTATAATT
TAGCAGTCCCATTGTGATTTTGCATATTTTAAAAAGTACTTTTAAAGAAGAGCAATTTCC
CCTTTAAAAATGTGATGGCTCAGTACCATGTATGTTGCCTCCTCTGGGCGCTGTAAGTT
AAGCTCTACATAGATTAAATTGGAGAAAACGTGTTAATTGTGTGGAATGAAAAAATACATA
TATTTTGGAAAAGCATGATCATGCTTGTCTAGAACACAAGGTATGGTATATACAATTTG
CAGTGACGTGGGCAGAATACTTCTCACAGCTCAAAGATAACAGTGATCACATTCATTCCA
TAGGTAGCTTTACGTGTGGCTACAACAAATTTTACTAGCTTTTTCATTGTCTTTCCATGA

FIGURE 1 (CONT'D)

AACGAAGTTGAGAAAATGATTTTCCCTTTGCAGGTTGCACACAGTTTTGTTTATGCATTT
CCTTAAAATTAATTGTAGACTCCAGGATACAAACCATAGTAGGCAATACAATTTTAGAAT
GTAATATATAGAGGTATATTTAGCCTCTTTTGAAGTCAGTGGATTGAATGTCTTTTAT
TTTAAATTTTACATTCATTAAGGTGCCTCGTTTTTGACTTTGTCCATTAAACATTTATCCA
TATGCCTTTGCAATAACTAGATTGTGAAAAGCTAACAAGTGTTGTAACAATAATCCATTG
TTTGAGGTGCTTGCAGTTGTCTTAAAAATTAAAGTGTTTGGTTTTTTTTTTTCC

Gene 420. >ENST00000315965 cDNA sequence

ATGAAGAGGCGGCGGCGCCGGCGCCCGGTGCCCCGGCCACGGCCGCGCGGGCGGCGAC
TTTAGGGCAGAAGACGGGGCTGGGTTGGAGGCGCGGGAGGAGAAGGTGGTGTACTCGCGG
TCGCAACTGTCTGGCTGACAGCACCAAGGCGCTGGGCGACGCCTTCAAGCTCTTCATG
CCCCGCAGCAGGAGTTTCTGAGCTCGGACGCGGAGCTCTGGAGCTTCTCTGCAGCCTC
AAGCACCAGTTTCTCCCGCACATCCTGCGCAGCAAGGACGTCTACGGCTACTCCTCCTGC
CGGGCCCTGGTACCCGACCCCGGGGCCCCCTACAGCCGCGGGCCAGGCGCGCCGGCCG
GTTCCGCGCGCAGCGGCCAGGAGGAGGCGCCGCGGAGCCCGGGCGGCGCGCTGCCGAGG
AGGAAGCCCCGGCGGCCACCCCGCCGCGCGCCCCCGAGGAGAGCTGCCCGGCCAAG
CCCGTGGCCCCCGGGCCCTGCTTCGGGGGCCGACCTTGGAGGAGATCTGGAGGGCGGCC
ACCCCGACGCTGACCACCTTCCCGACCATCCGCGTCGGCAGCGACGTGTGGGGCGAGCGC
AGCCTGGCGGCAGCGCGGCGCAGGGCGCGCCAGGTCCTGCGAGTGAACCTGGAACCCATG
GTGAGGCTCCGCGCTTCCCGGTGCCCCGGGCATGA

Gene 421. >ENST00000248550 cDNA sequence

GGAGTTTCTCTCTGTGGCCACCACCGCCCCAGGCCCACAGCAAGTACTGCCTGGCTACTG
CCAGTGTTCACTCAAGGACCAAGGGCTCTTCATTTCAGTGTTTGATTGGAGCATATGATCA
ACAAATATGGGAAAAATCTGTTGAACAGAGAGAAATCAAGGGGCTAAGGAATAAACCAAA
GAAAACAGCACATGTGAAACCAGACCTCATAGATGTTGATCTTGTAAGAGGGTCTGCATT
TGCAAAGGCAAAGCCTGAAAGTCTTGGACTTCTCTGACCAGAAAGGGAATTGTTTCGAGT
TGTATTTTTCCCTTTTTCTTCCGGTGGTGGTTACAAGTAACATCAAAGGTCATTTTTT
CTGGCTTCTTGTCCTTTATCTTCTTCAAGTTGCTGCAATAGTATTATTCTGCTCCACTTC
TAGCCACACAGCATACCTCTGACAGAGGTGATTGGGCCGATATGGCTGATGCTGCTCCT
GGGAATGTGCATTGCCAGATTGTTTCCACAAGAACACCCAAACCTCCTCTAAGTACAGG
GGGTAAAGAAGAAGGAAATTAAGAAAAGCAGCCATTTGGAAGTACATAGGGAAGGAGA
TGGTTCTAGTACCACAGATAACACACAAGAGGGAGCAGTTCAGAACCACGGTACAAGCAC
CTCTCACAGCGTTGGCACTGTCTTCAGAGATCTCTGGCATGCTGCTTTCTTTTTATCAGG
ATCAAAGAAAGCAAAGAATTCAATTGATAAATCAACTGAAACTGACAATGGCTATGTATC
CCTTGATGGGAAGAAGACTGTTAAAGCGGTGAAGATGGAATACAAAACCATGAACCTCA
GTGTGAAACTATTTCGACCAGAAGAGACAGCCTGGAACACAGGAACACTGAGGAATGGTCC
TAGCAAAGATACCCAAAGGACAATAACAAATGTCTCTGATGAAGTCTCAGTGAGGAAGG
TCCTGAAACAGGATACTCATTACGTGTCATGTGGACAGGACTTCTGAAGGTGTTCTTCG
GAATAGAAAGTACACCATTATAAGAAACATTACCCTAATGAGGACGCCCCCTAAATCGGG
TACTAGTTGCAGCTCTCGCTGTTCAAGTTCCAGACAGGATTCTGAGAGTGCAAGGCCAGA
ATCTGAAACAGAAGATGTGTTATGGGAAGACTTGTTACATTGTGCAGAATGCCATTATC
TTGTACCAGTGAGACAGATGTGGAAAATCATCAGATTAATCCATGTGTGAAAAAAGAATA
TAGAGATGACCTTTTTCATCAGAGTCATTTGCCCTGGCTCCATAGTTCCACCCAGGATT
AGAAAAATAAGTGCTATAGTATGGGAAGGTAATGATTGTAAGAAAGCAGACATGTCTGT
ACTTGAAATCAGTGGAATGATAATGAACAGAGTGAACAGCCATATACCAGGAATAGGATA
CCAGATTTTGGAAATGCAGTCTCTCTCATACTGGGTTTAACTCCATTTGTTTTCCGACT
TTCTCAAGCTACAGACTTGGAACAACTCACAGCACATTCTGCTTCAGAACTTTATGTGAT
TGCATTTGGTTCTAATGAAGATGTCATAGTTCTTTCTATGGTTATAATAAGTTTTGTGGT
TCGCGTGTCTCTTGTGTGGATTTTCTTTTTTTTTGCTCTGTGTAGCAGAAAGAACTTATAA
ACAGCGATTACTTTTTGCAAACTCTTTGGACATTTAACATCTGCAAGGAGGGCTCGAAA
ATCTGAGGTTCTCATTTCCGGTTGAAGAAAGTACAGAATATAAAAATGTGGCTATCTCT
CCGTTCTATCTTAAGCGTCGAGGTCCTCAGCGATCAGTTGATGTAATAGTTTCATCTGC
TTTCTTATTGACTATCTCAGTTGTATTTATCTGTTGTGCCAGCTACTTCATGTACACGA
GATCTTCTTGATTGTCACTACAATTGGGAATTGGTAATCTGGTGCATCTCGTTAACACT
TTTTCTCTAAGATTTGTTACCTTGGATCAGAAACAAGTAAAAAATATAGTAATACCTC

FIGURE 1 (CONT'D)

AATATTACTTACTGAACAGATAAACCTCTACTTGAAAATGGAGAAAAACCTAACAAAA
GGAGGAAGTGAAGTGAATAATGTTTTAAAGTGGCTACTAAAGTCTAAAGGAGTT
GGACAGTCTTTTAGATTATATGGGCTTACAATGAATCCGCTGCTTTATAACATCACCCA
GGTTGTTATCCTGTGAGCTGTTTCTGGTGTATCAGTGACTTGCTTGGATTAAATTTAAA
GCTATGGAAGATTAAAGTCATGACAATTCAAAGAAAAGAAGATGTAGCCTCTTTTCCAGAA
TAAGAGTACTGACTAAGCTGCCTGAAAGCTTGTCACTGATTCTTTGCTTCAGGAGTCTCA
GCTAGGGAGTTGAAGTGTATACATCAGACTGTCTTGTGCAATTCTTATATTTATTTTACT
GGTTCACTTTTTTTTTACATTTATTTTAGTCTTTATATTTTATTTTAAAGCATTGATGTA
CTTAGTTGTTGAAAGGGTGTGAACTGATATCCAGATACTTGAGATCCTGGTAATTGGT
CATAAATAATTGGCAAAATAACAAATTGTGAAAATAGAAGCCATTGCTCAGCACCGTTTC
TCCATCAATGCCGTGAAGTGTCTTACTTGAGGAAAAATTCTTTAACTTTGGAATATTGC
ATTGAACTCAGCTATACACATAAAACATTTTCTTTGGTAAATCAAGATCCAGTCAGGGTT
TCTCTGAATTATTTTGGAACAATGCCAGGATCCAACTGATTAAAGTTACAGTTAAGCA
CCCTTCAGTATTAATATATACGGTATTATATAACAGGTCAACAAGTGCTCTTTGATGATA
AACTTGTAAATAGAGCAATAATTGTAAATGGTTACCATACTGTAAGATATTTTGATAAAA
ATTAAGTAGTAATACTTGTATTTATTTGAAACACTGGGCTGTTTGCACAGCTCCAAGTGT
GCATGCTCAAAATGTGCACTTTTTTAAATTTGTTACTTTTAAATGCGTATCTTTATATGGGA
TCTGTTATAGTATACTAGGGCATGATATGGTATCCTTTTGAGTGAGGTATATACTCATCT
CACAAGTGAAGTGCCTACTGATATTACTAAAGTACATTATGTTTACTCAAGTAAATAATT
TTCTCCCATGGTACACTCTAGTGTAGGCTATTATACACACTGAAATGAACAACTGAA
GAATAAGGCTAAGAACCAATAAAATATTTCTCTAATTGCTAGTTGTAAAGTGTATCCAA
ATTTTCAGAAAAGACAGCTTCAGCTTGCAAATTCTATCCTCTAACTTATCTGGTGCATT
CTCCCCACCCACCCCATTAATAAGGGCTATTTTAGATGCTTTTAACTCCCAACAA
ATAATTTGCCAAGTGTCCAATGAGAACTTATCATGTTGGTGTGTTAGGTAAATCGGGCAA
ATATGATAGTGTCTTACATTGGGCCTTGATTTTAAAGTTGTTATATTTGTACAATCGAGTA
TTTTAGAAATTACATGAAACATGAAACAGTTTTTGCATTTTTTTTTTAACTGGGCATCTG
GTTTTCTAAAAATTTATTTGAAACAATCTAGAATTTTCTTGGTGCAAAGTGTATCATGTGG
AATATCCTCATATTTTTTACCATATTTTAAAGAACTTTAAGACGATTAATTGTAAATAATTT
ATTTGATTGGTGCAGTTCTAATCCCTAAATCATAATCTTAAATCAGGAATGTGTGGAGA
ACAGAGCCATGTCATATCACTTTGCTCTTACCATTCTTTTGTATCAGCCTCAATTCAGCC
TCATTGTGTAGTATGTTTTTTCTTTCTATGAAAAACAACAGAAAGCATTTTATTTTATTT
GCCTATGTTCAAATATGTTTAAATAATGACCAAAGTGCATTCTGAGTTTTTTCAAGGAATG
TAATACTGGAGCTTTAAGAACATACTTAGTTTTCTCATGTGAAACCTTAGGCTTTGTCTGA
TGTTTTTCTTCTCTATTGTCTAATGTTGAGGTTGTTTTTAGGAATTATGTTTTATAAA
CTTTTTCAATATAAGGTACATGCCTATACAGAACTTAACATTTTGCACAGAATATATCAA
ATATATTTTGAAGAAAAAGTACGGCATGAGTTCTGTTAGGAATAAAAGATGAAACTATT
GTATCTCAGAAAAATCTTATTTTCAAGATGGAATATTTTTTGAAGAAAGTAGCTGAGTAT
ACTGGTTTAAAGAAATGCTTGTTTTAGATTGAGGTAACTTAGAGTTGGGAGTTGATTTA
TTAAGTACAGTATACCTCTCAACAGTTTATAAATAATATGTTGAATTATGTCAGTGTGGG
CAGCAGTAGAATACTAAAAGGAAAATGTCATGTTAAGCAATTTTCAAGCAATTAAGTGAAC
TATTTTCAAAGCAGAAAAATTGACATTGCTGCCTTTAAGAATACCATGAATGTAAGAAAT
TGAAAGAAATTGTAAATATACATAATATAGAAATGGCAGTTCAAAGAGAATTGTGGCA
GATGTTGTGTGTGAAGTGTGTTTCTTTGCCACATGTGTTGTATTTGAAAGTTTTACAGT
AAGTTTTAAATAAAACATTCTGTGACTG

Gene 422. >ENST00000223398 cDNA sequence

CGGCTCGGCCGCGGGGCGCGCAGGCGGCTGCTGGGCGGCCTCGGTGCGCGCCTCCCGCCT
TCCCAGAGACGTGGCGCGAGGCCCGGGCCCTGAGCACCTATCGCGGGGATCCCCGGCGCC
AGGAGGGGGTGCAGCCGGTGGGCAGCGCCGCGCAGGGAGGGGCGCAGCATCCTCGCCCC
CCAGCGCGCCCGGGCCCGAGAGGAGGAGGCCGGGGCTCTCCGGGCCTCCCGCCGCTTAGC
CTGATGCTGGAAGGACGAAGGTGAGTGAAGATGGCAGAGAGGACGTGACCAGCACTCACC
CTTGTCCACCTGCCAGTGGCACCGCCATGCAGAAGCCAGCGGCCTGAAGCCCCCGGC
CGTGGGGGGAAGCACTCCAGCCCCATGGGCCGACATCTACTGGGTGAGCTTCATCCTCG
GCGGCGGTGGCCGCTAGCTCCAAGGAAGGCTCCCCACTGCACAAACAGTCATCTGGACCC
TCCTCCTCCCCGGCCGAGCTGCTGCCCCGAGAAGCCGGGCCCCAAGGCGGCGGAAGTG

FIGURE 1 (CONT'D)

GGGGATGACTTCCTGGGGGACTTTGTGGTGGGCGAGCGGGTGTGGGTGAACGGCGTGAAG
CCAGGCGTGGTGCAAGTATCTGGGAGAGACGCAGTTTCACACGGGGCCAGTGGGCTGGCGTG
GTGCTGGACGACCCGGTGGGCAAGAATGATGGCGCGGTGGGCGGCGTGCCTACTTCGAG
TGCCCGGCCCTCCAGGGTATCTTCACGCGGCCCTCCAAGCTGACCCGGCAGCCACGGCC
GAGGGCTCGGGGAGTGATGCCCCACTCCGTGGAGTCGCTGACTGCCAGAACCTGTCAATTG
CATTCGGGCACGGCCACGCCCCCGCTGACCAGCCGCGTCATCCCCCTGCGGGAGAGCGTC
CTCAACAGCTCCGTGAAGACTGGCAACGAGTCGGGATCCAACCTCTCAGACAGCGGCTCT
GTGAAGCGGGGCGAAAAGGACCTGCGCCTGGGGGACCGCGTGCTGGTTGGCGGGACGAAG
ACTGGCGTGGTGCGGTACGTGGGGGAGACAGACTTTGCCAAGGGCGAGTGGTGTGGCGTG
GAGCTGGACGAGCCCCCTTGGGAAGAATGATGGGGCGGTGGCGGGCACCAGTACTTCAG
TGCCACCCAAAGTTTGGTCTCTTCGCGCCCATCCACAAAGTGATCCGTATCGGCTTCCCA
TCTACCAGCCAGCCAAGGCCAAGAAGACCAAGCGTATGGCCATGGGTGTGTGAGCACTG
ACCCACAGTCCCAGCAGTTCTCTCATCAGCTCCGTGAGCTCTGTGGCCTCCTCCGTGGGG
GGTTCGGCCAGCCGAGTGGCCTGCTCACGGAGACCTCTTCACGCTACGCCCCGAAGATC
TCGGGCACCACGGCCTTGACAGGAGGCACTGAAGGAGAAGCAGCAGCACATTGAGCAGCTG
CTGGCTGAACGAGACCTGGAACGGGCTGAGGTGGCCAAGGCCACAAGCCACATCTGCGAG
GTGGAGAAGGAGATTGCCCTGCTCAAGGCACAGCATGAGCAGTATGTTGCAGAAGCCGAG
GAGAAGCTGCAGCGAGCCCGGCTGCTCGTGGAGAGCGTGCAGAAAGAGAAGGTGGACCTG
TCCAACCAGCTGGAGGAGGAGAGGAGGAAGGTGGAGGATCTGCAGTTCCGCGTGGAGGAG
GAGTCCATCACCAAGGGAGACCTGGAGACCCAGACGCAGCTGGAGCACGCGCGCATTGGG
GAGCTGGAACAGAGCCTGCTACTGGAGAAGGCGCAGGCCGAGCGGCTGCTCCGAGAATTA
GCGGACAACAGGCTGACCACAGTGGCCGAGAAGTCGCGCGTGTGTCAGCTGGAGGAGGAG
CTCACCTGCGCCGAGGTGAAATCGAGGAGCTCAGCAGTGCCTGTTGCACTCGGGTCCC
CCACCTCCGGACCACCCAGACGCGCGGAGATCCTGCGGCTACGGGAGCGGCTGCTCTCG
GCCAGCAAGGAACACCAGAGGGAGAGTGGGGTGTGCGGGATAAATACGAGAAGGCCCTG
AAGGCCTACCAGGCGGAGGTGGACAAGCTCCGCGCGGCCAACGAGAAGTACGCACAGGAG
GTGGCGGGCCTGAAGGACAAGGTTTCAGCAGGCCACCAGCGAGAACATGGGGCTAATGGAC
AACTGGAAATCCAAGCTGGACTCGCTGGCCTCGGACCACCAGAAGTCCCTGGAGGACCTC
AAAGCCACCCTGAACTCGGGCCAGGCGCCAGCAGAAGGAGATCGGCGAGCTGAAGGCA
GTGATGGAGGGCATCAAGATGGAGCACCAGCTGGAGCTGGGTAACCTTGACGGCCAAGCAT
GACCTGGAGACCGCCATGCACGTGAAGGAGAAGGAGGCCCTGCGAGAGAAGCTGCAGGAG
GCCAGGAGGAGCTGGCTGGGCTGCAGCGGCACTGGCGGGCCAGCTGGAGGTGCAAGCC
AGCCAGCACCGGCTGGAGCTGCAGGAGGCCAGGACCAGCGCCGGGATGCCGAGCTGCGT
GTGCACGAGCTGGAAAACTGGACGTGGAGTACCGGGGCCAGGCGCAGGCTATCGAGTTC
CTCAAGGAGCAGATCTCGCTGGCCGAGAAGAAGATGTTGGACTACGAGCGGCTGCAGCGG
GCAGAAGCCAGGGCAAAAGAGGTCGAGAGTTTTCGGGAGAAGCTCCTGGTGGCTGAG
AACAGACTCCAGGCGGTGAGGCGCTGTGCTCCTCCAGCACACCCACATGATTGAGTCG
AATGACATTTTCAGAGGAGACGATCAGGACGAAGGAACTGTGGAGGGCCTGCAGGACAAG
CTGAACAAGAGGGACAAAGAGGTGACAGCCTTGACCTCCAGACCGAGATGCTCAGGGCC
CAAGTAAGTGCCTGGAGAGCAAGTGTAAGTCAGGCGAGAAGAAGGTGGACGCCCTCCTG
AAGGAGAAGCGGCGCTGGAGGCAGAGCTGGAGACCGTGTCCCGGAAGACCCATGACGCC
TCGGGCCAGCTAGTCTCATCAGCCAGGAGCTGCTGCGGAAGGAGCGGAGCCTGAACGAA
CTGCGGGTGTGCTGCTGGAGGCCAATCGTCACTCCCAGGGCCGGAGAGGGACCTGAGC
CGTGAGGTACACAAGGCTGAGTGGCGGATCAAGGAGCAGAACTCAAGGATGACATCCGG
GGCCTGCGTGAAAAGCTGACCGGGCTGGACAAAGAGAAATCCCTGTGCGGATCAGAGGCGC
TACTCCCTCATCGACCGGTCTCGGCGCCCGAGCTTCTGCGGCTGCAGCACCAGCTGATG
AGCACGGAGGACGCCCTGCGGGATGCGCTGGACCAGGCTCAGCAGGTGGAGAAGCTGATG
GAGGCCATGAGGAGCTGCCCTGACAAGGCCAGACCATCGGCAATTCCGGTTCTGCAAAAC
GGCATCCACCAGCAGGACAAAGCTCAGAAACAAGAGGACAAGCACTGATCCTGAGGGGAT
ACTGTGGAGCAGCCAGTCCACACCAGAGCCCCACGCGGCTGCCCGGCAGTACCTCCTCC
AGGCAGGAGCCGGGACTGTCACTTTGGAGACAAAACAGTGTGTTGTAACAATAACGTACTC
ACCGCCGCGGACAATCCCCACCCCGATCCCTCGCCAGACCAGGACGCTTCTCAAGCCC
AGCCTTCTACAGAGAGTGTGAACGGTACAGCCCCGGCCTGACCCGGGGACCTTCAGCCTG
GACACCCGGCAGCTTCTGGAGTTTGTGAGTGGAGGCAGAGGGGATCCGGCCAGGCCCCCTC

FIGURE 1 (CONT'D)

TGTCCAGAAGGAGCTGCCCTGAGGACCATCTTAGCGGCCCTGTCTCTTTTTCCGCCCAT
TCTCCCTCGGGTCTCCCCAGAGGGGCGGCGGGGGCTGGGAGGGGGTAAGTTTATCCAT
GCAGACACCAAGGGGAGCATCCAGTCTTTAAGAGCCAAGTGGGGGCCCCTTTTCCGAAG
CCACTTCCAGGCCAAGGCAGTCCAGGGCTTCTGTCCCACCTTCTGAACCTTCTTCA
AACAGTAGTACAAGCTCCCCTCAGCCAGCCTGCCTGCCAGCGAGGCCCCCAGGTTCAAG
GTGTTGGCGGGGCGGAGGGCAGGGGAACGGGATCCTTCTCCCGCTGCCACCAACACCA
ACACACACACACCTCTAAGCTGCTGGCCGAAGATGTCACCAAGGCCAAAGACACAGTATT
ATGAAGGTTTGGAAACCCCTCTCCTCACCTCCCACCGTGACCTTGGGCAAAACCTGGCTC
GGAGCCCAGGGCAGAGGCAGCTCAGAGTGGAGGCTCTAGGCAGGTTTGACAAAGGTCAGT
AATACGTTTTCCCTGGGGTTGACCAGATGTTCCAAAATATCTGCATCCACCTGGAGATG
CAGCTAAGTGGGTCCTTATGTACACACACGTTTACACACACACAGAGGGACCACTGTG
CACGCATGACCGTGTGGGTGGCGGCTTTGCTGTGAACACGCTCAGGCCACACAGAGAC
ACATACTTGGTTTTCTGGGACTGAGACCCAGGCCTGGCAGGACCGTGCTACAGATACTGC
AAACGTTCTACAGCCTAGAGGTGCGTATACACACCAAGTACACGCAGCCAGGCATTCA
GGGGTGTGTTTGCCACATGGAGCATCCCTTCTGGTCTTGCCAGGCACCTGCACAGAGCG
TCTCCAGCCCCATCTCCTAACGGGGGCTGGGGGTAAGAGAAATCTAACTGCGCTCCCCCA
ACCCCTCGCCCTGCCATCTTCCCCTCAAGCCTGCTAAGTTATCCCAGGCCTGTGCGTGGT
GGAAAAGCCAGCCTTGGCCCTGCAGCCTCCACCTCGCCGCTGGGGGACCAACAGGTTGC
TTACAGCTTTTGACCCCGGCATCAGCACAGGGGTCCCTGCCCCACCTCCGGCAGCTCAG
GGAGTGTGTTTTCTGTGAGGCCTCCCCCATCAGTGGACCAGAGGGAGAAGCCCGATGCCCC
ATCCCGGCTTTCCCGTAACGCACAGGACACGTGTGCAATTCATAGGAACGGCCCAGATCG
CCCTCATGAGTGCCACCTGGTACAGGTAGGTGGCGCTCACGTTCTGCCCCAATGCAGCC
CATCGGGGAGTCACAGTCAGTCCCCCGGCCCCCCCTCCCAGTCCCTGTTGGCTTTCCGTA
GCTCTCGCATGCAGTTCTATTAAACAGCCGTCTAGAAGCGATGCTTTAGTGGCCTAACCCA
GGGTCAAATACAGCTCTTTCTAGCAAAATCAGGCAGCTCTGCCCCCATCGGTAGGGGCACC
GATTAGTCTACTAACAGCCAGAGGTCCATCTAGCAGGGTGCCGGGAGGAGCTGAGCCCCC
GGAGGTGGGCTCCTGGTGACGGGTGTCCAAGAAGCGTTTTCTTGGGAGCTTCTGCCTCC
GTGGGCCTCTCAGCCCCCGCCGCTGTGGCCGCGGGTGTGGCTCAGCCATGTCCCCCTCC
CAGGTCTTTCATTACCCCTCCCCCTCCCCACAGTGGAATTGTTGAAGTGTGGCGAGTCTG
TGCTCGGGACAATAAAGCTTGTGACAGGTCCAGG

Gene 423. >ENST00000275634 cDNA sequence

CGGCTCGGCCGCGGGGCGCGCAGGCGGCTGCTGGGCGGCCTCGGTGCGCGCCTCCCGCCT
TCCCAGAGACGTGGCGCGAGGCCCGGGCCCTGAGCACCTATCGCGGGGATCCCGGGCGCC
AGGAGGGGGTGCAGCCGTTGGGCGAGCGCCGCGCAGGGAGGGGCGCAGCATCCTCGCCCC
CCAGCGCGCCCGGGCCCGAGAGGAGGAGGCCGGGGCTCTCCGGGCCTCCCGCCGCTTAGC
CTGATGCTGGAAGGACGAAGGTGAGTGAAGATGGCAGAGAGGACGTGACCAGCACTCACC
CTTGTCCACCTGCCCAGTGGCACCGCCATGCAGAAGCCCAGCGGCCTGAAGCCCCCGGC
CGTGGGGGGAAGCACTCCAGCCCCATGGGCCGACATCTACTGGGTGAGCTTCATCCTCG
GCGGCGGTGGCCGCTAGCTCCAAGGAAGGCTCCCCACTGCACAAAACAGTCATCTGGACCC
TCCTCCTCCCGGCCGAGCTGCTGCCCCCGAGAAGCCGGGCCCAAGGCGGCGGAAGTG
GGGGATGACTTCTTGGGGGACTTTGTGGTGGGCGAGCGGTGTGGGTGAACGGCGTGAAG
CCAGGCGTGGTGAGTATCTGGGAGAGACGCAGTTTCGCACCGGGCCAGTGGGCTGGCGTG
GTGCTGGACGACCCGTTGGGCAAGAATGATGGCGCGGTGGGCGGCGTGCGTACTTCGAG
TGCCCGGCCCTCCAGGGTATCTTACGCGGCCCTCCAAGCTGACCCGGCAGCCACGGCC
GAGGGCTCGGGGAGTGATGCCCACTCCGTGGAGTCGCTGACTGCCCAGAACCTGTATTG
CATTCGGGCACGGCCACGCCCCGCTGACCAGCCGCGTCATCCCCCTGCGGGAGAGCGTC
CTCAACAGCTCCGTGAAGACTGGCAACGAGTCGGGATCCAACCTCTCAGACAGCGGCTCT
GTGAAGCGGGGCGAAAAGGACCTGCGCCTGGGGGACCGGTGCTGGTTGGCGGGACGAAG
ACTGGCGTGGTGCGGTACGTGGGGGAGACAGACTTTGCCAAGGGCGAGTGGTGTGGCGTG
GAGCTGGACGAGCCCCCTTGGGAAGAATGATGGGGCGGTGGCGGGCACAGGTAATTCAG
TGCCCAACCAAGTTTGGTCTCTTCGCGCCCATCCACAAAGTGATCGTATCGGCTTCCCA
TCTACCAGCCCAGCCAAGGCCAAGAAGACCAAGCGTATGGCCATGGGTGTGTGAGCACTG
ACCCACAGTCCCAGCAGTTCTTCATCAGCTCCGTGAGCTCTGTGGCCTCCTCCGTGGGG
GGTGGGCCAGCCGAGTGGCCTGCTCACGGAGACCTTTACGCTACGCCCCGAAGATC

FIGURE 1 (CONT'D)

TCGGGCACCA CGGCCTTG CAGGAGGCA CTGAAGGAGAAGCAGCAGCACATTGAGCAGCTG
CTGGCTGAACGAGACCTGGAACGGGCTGAGGTGGCCAAGGCCACAAGCCACATCTGCGAG
GTGGAGAAGGAGATTGCCCTGCTCAAGGCACAGCATGAGCAGTATGTTGCAGAAGCCGAG
GAGAAGCTGCAGCGAGCCCGGCTGCTCGTGGAGAGCGTGCAGGAAAAGAGAAGGTGGACCTG
TCCAACCAGCTGGAGGAGGAGAGGAGGAAGGTGGAGGATCTGCAATTCCGCGTGGAGGAG
GAGTCCATCACCAAGGGAGACCTGGAGCTGACCAAGTGGCCGAGAAGTCGCGCGTGCTG
CAGCTGGAGGAGGAGCTCAACCTGCGCCGAGGTGAAATCGAGGAGCTCCAGCAGTGCCCTG
TTGCACTCGGGTCCCCACCTCCGGACCACCCAGACGCCGCCGAGATCCTGCGGCTACGG
GAGCGGCTGCTCTCGGCCAGCAAGGAACACAGAGGGAGAGTGGGGTGCTGCGGGATAAA
TACGAGAAGGCCCTGAAGGCCTACAGGCGGAGGTGGACAAGCTCCGCGCGGCCAACGAG
AAGTACGCACAGGAGGTGGCGGGCCTGAAGGACAAGGTTTCAGCAGGCCACCAGCGAGAAC
ATGGGGCTAATGGACAACCTGGAATCCAAGCTGGACTCGCTGGCCTCGGACCACCAGAAG
TCCCTGGAGGACCTCAAAGCCACCTGAACTCGGGCCAGGCGCCAGCAGAAGGAGATC
GGCGAGCTGAAGGCAGTGATGGAGGGCATCAAGATGGAGCACCAGCTGGAGCTGGGTAACT
TTGCAGGCCAAGCATGACCTGGAGACCGCCATGCACGTGAAGGAGAAGGAGGCCCTGCGA
GAGAAGCTGCAGGAGGCCAGGAGGAGCTGGCTGGGCTGCAGCGGCACTGGCGGGCCAG
CTGGAGGTGCAAGCCAGCCAGCACC GGCTGGAGCTGCAGGAGGCCAGGACCAGCGCCGG
GATGCCGAGCTGCGTGTGCACGAGCTGGAAAACTGGACGTGGAGTACCGGGGCCAGGCG
CAGGCATTCGAGTTCTCAAGGAGCAGATCTCGCTGGCCGAGAAGAAGATGTTGGACTAC
GAGCGGCTGCAGCGGGCAGAAGCCAGGGCAAAACAGGAGGTCGAGAGTTTTCGCGGGAAG
CTCCTGGTGGCTGAGAACAGACTCCAGGCGGTGAGGCCCTGTGCTCCTCCAGCACACC
CACATGATTGAGTCGAATGACATTT CAGAGGAGACGATCAGGACGAAGGAAACTGTGGAG
GGCCTGCAGGACAAGCTGAA CAAGAGGGACAAAGAGGTGACAGCCTTGACCTCCAGACC
GAGATGCTCAGGGCCCAAGTAAGTGCGCTGGAGAGCAAGTGTAAGTCAGGCGAGAAGAAG
GTGGACGCCCTCCTGAAGGAGAAGCGGCGCCTGGAGGCAGAGCTGGAGACCGTGTCCCGG
AAGACCCATGACGCCTCGGGCCAGCTAGTCCTCATCAGCCAGGAGCTGCTGCGGAAGGAG
CGGAGCCTGAACGAACTGCGGGTGTTGCTGCTGGAGGCCAATCGTCACTCCCAGGGCCG
GAGAGGGACCTGAGCCGTGAGGTACA CAAGGCTGAGTGGCGGATCAAGGAGCAGAAACTC
AAGGATGACATCCGGGGCCTGCGTGAAAAGCTGACCGGGCTGGACAAAGAGAAATCCCTG
TCGGATCAGAGGCGCTACTCCCTCATCGACCGGTCTCGGCGCCCGAGCTTCTGCGGCTG
CAGCACCAGCTGATGAGCA CGGAGGACGCCCTGCGGGATGCGCTGGACCAGGCTCAGCAG
GTGGAGAAGCTGATGGAGGCCATGAGGAGCTGCCCTGACAAGGCCAGACCATCGGCAAT
TCCGGTTCTGCAAACGGCATCCA CCAGCAGGACAAAGCTCAGAAAACAGAGGACAAGCAC
TGATCCTGAGGGGATACTGTGGAGCAGCCCAGTCCACACCAGAGCCCCACGCGGCTGCCC
GGCAGTACCTCCTCCAGGCAGGAGCCGGGACTGTCACTTTGGAGACAAAACAGTGTTTGT
AACATAACGTACTCACCGCCGCGGACAATCCCCACCCCGATCCCTCGCCAGACCAGGA
CGCTTCCTCAAGCCAGCCTTTACAGAGAGTGTGAACGGTACAGCCCCGGCCTGACCCG
GGGACCTTCAGCCTGGACACCCGGCAGCTTCTGGAGTTTGTGAGTGGAGGCAGAGGGGAT
CCGGCCAGGCCCTCTGTCCAGAAGGAGCTGCCCTGAGGACCATCTTAGCGGCCCTGTCC
TCTTTTTCCGCCCATTCTCCCTCGGGTCTCCCAGAGGGGCGGCGGGGGCTGGGGAGGG
GGTAAGTTTATCCATGCAGACACCAAGGGGGAGCATCCAGTCTTTAAGAGCCAAGTGGGG
GCCCCTTTTCCGAAGCCACTTCAGGCCAAGGCAGTCGCCAGGGCTTCTTGTCCTCCACCT
TCTGAACCTTCTTCAAACAGTAGTACAAGCTCCCTCAGCCAGCCTGCCTGCCAGCGAG
GCCCCCAGGTTCAAGGTGTTGGCGGGGGCGGAGGGCAGGGGAACGGGATCCTTCTCCCGC
TGCCCAACCAACCAACACACACACCTCTAAGCTGCTGGCCGAAGATGTCACCAAGGC
CAAAGACACAGTATTATGAAGGTTTGGAAACCCCTCTCCTCACCTCCACCGTGACCTTG
GGCAAACCTGGCTCGGAGCCCAGGGCAGAGGCAGCTCAGAGTGGAGGCTCTAGGCAGGT
TTGACAAAGGTGAGTAATACGGTTTCCCTGGGGTTGACCAGATGTTCCAAAATATCTGC
ATCCACCTGGAGATGCAGCTAAGTGGGTCTTATGTACACACCACGTTACACACACACA
GAGGGACCACGTGTGCACGCATGACCGTGTGGGTGGCGGCGTTTGTGTGAACCACGCTC
AGGCCACACAGAGACACATACTTGGTTTCTGGGACTGAGACCCAGGCCTGGCAGGACCGT
GCCTACAGATACTGCAAACGTTCTACAGCCTAGAGGTGCGTATACACACCAAGTACAC
GCAGCCAGGCATTACGGGGTGTGTTTGCCACATGGAGCATCCCTTCTGGTCTTGCCAGG
CACCTGCACAGAGCGTCTCCAGCCCATCTCCTAACGGGGGCTGGGGGTAAGAGAAATCT

FIGURE 1 (CONT'D)

AACTGCGCTCCCCAACCCCTCGCCCTGCCATCTTCCCCTCAAGCCTGCTAAGTTATCCC
AGGCCTGTGCGTGGTGGAAAAAGCCAGCCTTGGCCCTGCAGCCTCCACCTCGCCGCTGGG
GGACCAACAGGTTGCTTACAGCTTTGCACCCCGGCATCAGCACAGGGGTCCCTGCCCCAC
CCTCCGGCAGCTCAGGGAGTGTTTTCTGTGAGGCCTCCCCATCAGTGGACCAGAGGGA
GAAGCCCGATGCCCCATCCCGGCTTTCCCGTAACGCACAGGACACGTGTGCAATTATAG
GAACGGCCAGATCGCCCTCATGAGTGCCACCTGGTACAGGTAGGTGGCGCTCACGTTCC
TGCCCAAATGCAGCCCATCGGGGAGTCACAGTCAGTCCCCCGGCCCCCTCCAGTCCC
TGTTGGCTTTTCGGTAGCTCTCGCATGCAGTTCTATTAAACAGCCGTCTAGAAGCGATGCTT
TAGTGGCCTAACCCAGGGTCAAATACAGCTCTTTCTAGCAAATCAGGCAGCTCTGCCCC
ATCGGTAGGGGCACCGATTAGTCTACTAACAGCCAGAGGTCCATCTAGCAGGGTGCCGGG
AGGAGCTGAGCCCCCGAGGTGGGCTCCTGGTGACGGGTGTCCAAGAAGCGGTTTCCTTG
GGAGCTTCTGCCTCCGTGGGCTCTCAGCCCGCCCCGTGTGGCCGCCCGGGTGTGGCTCA
GCCATGTCCCCTCCCAGGTCCTTCATTACCCCTCCCCTCCCCACAGTGAATTGTTGA
AGTGTGGCGAGTCTGTGCTCGGGACAATAAAGCTTGTGACAGGTCCAGG

Gene 424. >ENST0000265761 cDNA sequence

GCGCCGAGCCGGTTTCCCCGCCGGTGTCCGAGAGGCGCCCCGGCCCGCCCCCAGC
CCCAGCCCCGCCGGGCCCCGCCCCCGTTCGAGTGCATGAGGTTGACGCTACTTTGTTGCA
CCTGGAGGGAAGAACGTATGGGAGAGGAAGGAAGCGAGTTGCCCGTGTGTGCAAGCTGCG
GCCAGAGGATCTATGATGGCCAGTACCTCCAGGCCCTGAACGCGGACTGGCACGCAGACT
GCTTCAGGTGTTGTGACTGCAGTGCCCTCCCTGTGCGACCAGTACTATGAGAAGGATGGGC
AGCTCTTCTGCAAGAAGGACTACTGGGCCCGCTATGGCGAGTCTGCCATGGGTGCTCTG
AGCAAATACCAAGGGAAGTGGTTATGGTGGCTGGGGAGCTGAAGTACCAACCCGAGTGTT
TCATCTGCCTCACGTGTGGGACCTTTATCGGTGACGGGGACACCTACACGCTGGTGGAGC
ACTCCAAGCTGTACTGCGGGCACTGCTACTACCAGACTGTGGTGACCCCGTCATCGAGC
AGATCCTGCCTGACTCCCCTGGCTCCACCTGCCCCACACCGTCACCTGGTGTCCATCC
CAGCCTCATCTCATGGCAAGCGTGGACTTTTCAGTCTCCATTGACCCCCCGCACGGCCAC
CGGGCTGTGGCACCGAGCACTCACACACCGTCCGCGTCCAGGGAGTGGATCCGGGCTGCA
TGAGCCCAGATGTGAAGAATTCCATCCACGTCCGAGACCGGATCTTGGAATCAATGGCA
CGCCCATCCGAAATGTGCCCCTGGACGAGATTGACCTGCTGATTGAGGAAACAGCCGCC
TGCTCCAGCTGACCCCTCGAGCATGACCCCTACGATACACTGGGCCACGGGCTGGGGCCTG
AGACCAGCCCCCTGAGCTCTCCGGCTTATACTCCCAGCGGGGAGGCGGGCAGCTCTGCCC
GGCAGAAACCTGTCTTGAGGAGCTGCAGCATCGACAGGTCTCCGGGCGCTGGCTCACTGG
GCTCCCCGGCCTCCAGCGCAAGGACCTGGGTGCTCTGAGTCCCTCCGCGTAGTCTGCC
GGCCACACCGCATCTTCCGGCCGTCCGACCTCATCCAGGGGAGGTGCTGGGCAAGGGCT
GCTTCGGCCAGGCTATCAAGGTGACACACCGTGAGACAGGTGAGGTGATGGTGATGAAGG
AGCTGATCCGGTTTCGACGAGGAGACCCAGAGGACGTTTCTCAAGGAGGTGAAGGTCATGC
GATGCCTGGAACACCCCAACGTGCTCAAGTTTCATCGGGGTGCTCTACAAGGACAAGAGGC
TCAACTTCATCACTGAGTACATCAAGGGCGGCACGCTCCGGGGCATCATCAAGAGCATGG
ACAGCCAGTACCCATGGAGCCAGAGAGTGAGCTTTGCCAAGGACATCGCATCAGGGATGG
CCTACCTCCACTCATGAACATCATCCACCGAGACCTCAACTCCCACAACTGCCTGGTCC
GCGAGAAACAAGAAATGTGGTGGTGGCTGACTTCGGGCTGGCGCGTCTCATGGTGGACGAGA
AGACTCAGCCTGAGGGCCTGCGGAGCCTCAAGAAGCCAGACCGCAAGAAGCGCTACACCG
TGGTGGGCAACCCCTACTGGATGGCACTGAGATGATCAACGGCCGAGCTATGATGAGA
AGGTGGATGTGTTCTCCTTTGGGATCGTCTGTGCGAGATCATCGGGCGGGTGAACGCAG
ACCCTGACTACCTGCCCCGCACCATGGACTTTGGCCTCAACGTGCGAGGATTCCTGGACC
GCTACTGCCCCCAAACCTGCCCCCGAGCTTCTTCCCCATCACCGTGCGCTGTTGCGATC
TGGACCCCGAGAAGAGGCCATCCTTTGTGAAGCTGGAACACTGGCTGGAGACCCTCCGCA
TGCACCTGGCCGGCCACCTGCCACTGGGCCCCACAGCTGGAGCAGCTGGACAGAGGTTTCT
GGGAGACCTACCGGCGCGGCGAGAGCGGACTGCCTGCCACCCCTGAGGTCCCCGACTGAG
CCAGGGCCACTCAGCTGCCCCCTGTCCCCACCTCTGGAGAATCCACCCCCACCAGATTCTT
CCGCGGGAGGTGGCCCTCAGCTGGGACAGTGGGGACCCAGGCTTCTCTCAGAGCCAGGC
CCTGACTTGCCCTTCTCCACCCCGTGGACCGCTTCCCCTGCCTTCTCTCTGCCGTGGCCCC
AGAGCCGGCCAGCTGCACACACACCATGCTCTCGCCCTGCTGTAACTCTGTCTTGG
CAGGGCTGTCCCCTCTTGCTTCTCCTTGATGAGCTGGAGGGCCTGTGTGAGTTACGCC

FIGURE 1 (CONT'D)

CTTTCCACACGCCGCTGCCCCAGCAACCCTGTTACGCTCCACCTGTCTGGTCCATAGCT
CCCTGGAGGCTGGGCCAGGAGGCAGCCTCCGAACCATGCCCCATATAACGCTTGGGTGCG
TGGGAGGGCGCACATCAGGGCAGAGGCCAAGTTCCAGGTGTCTGTGTTCCAGGAACCAA
ATGGGGAGTCTGGGGCCCGTTTTCCCCCAGGGGGTGTCTAGGTAGCAACAGGTATCGAG
GACTCTCCAAACCCCCAAAGCAGAGAGAGGGCTGATCCCATGGGGCGGAGGTCCCCAGTG
GCTGAGCAAAACAGCCCCCTTCTCTCGCTTTGGGTCTTTTTTTTTGTTTCTTTCTTAAAGCCA
CTTTAGTGAGAAGCAGGTACCAAGCCTCAGGGTGAAGGGGGTCCCTTGAGGGAGCGTGGA
GCTGCGGTGCCCTGGCCGGCGATGGGGAGGAGCCGGCTCCGGCAGTGAGAGGATAGGCAC
AGTGGAACGGGCAGGTGTCCACCAGCAGCTCAGCCCCCTGCAGTCATCTCAGAGCCCCCTTC
CCGGGCCTCTCCCCAAGGCTCCCTGCCCCCTCCTCATGCCCCCTCTGTCCTCTGCGTTTTT
TCTGTGTAATCTATTTTTTAAGAAGAGTTTGTATTATTTTTTTCATACGGCTGCAGCAGCA
GCTGCCAGGGGCTTGGGATTTTTATTTTTGTGGCGGGCGGGGGTGGGAGGGCCATTTTGTC
ACTTTGCCTCAGTTGAGCATCTAGGAAGTATTA AAACTGTGAAGCTTTCTCAGTGCACTT
TGAACCTGGAAAACAATCCCAACAGGCCCCGTGGGACCATGACTTAGGGAGGTGGGACCCA
CCCCCCCCCATCCAGGAACCGTGACGTCCAAGGAACCAACCCAGACGCAGAACAAATAAA
ATAAATTCCGTACTCCCCACCC

Gene 425. >ENST00000252037 cDNA sequence

GTACAGCCAGGGAGGGCAGCGGGGCGACCAGGCCGAAGGCTCACGCCACAGGGAGGGC
AGCTAGGACATGGGGGGAAGCGCGTTAAACCAGGGAGTCCTGGAAGGGGACGACGCCCC
GGCCAGTCCCTGTACGAGCGGTTAAGTCAGAGGATGCTGGACATCTCGGGGGACCGGGC
GTGCTGAAGGACGTATCCGAGAAGGAGCTGGAGACCTAGTGGCGCCTGATGCTTCGGTG
CTAGTGAAATACTCGGGATACCTGGAACACATGGACAGACCCTTCGATTCTAATTACTTT
AGGAAAACCTCCTCGGCTAATGAAACTTGGAGAGGATATTACACTGTGGGGCATGGAGCTG
GGCCTTCTGAGCATGCGGAGAGGAGAGCTGGCCAGGTTTCTGTTCAAACCGAACTACGCC
TATGGAACGCTGGGCTGCCCTCCCTTGATCCCCCAACACCACTGTCTGTTTGAGATT
GAGCTGCTTGACTTCTGGAAGTGTGCTGAGTCAGACAAGTTTTGTGCTCTCTCAGCTGAG
CAGCAAGACCAATTTCCACTTCAGAAGGTCTGAAAGTGGCAGCTACGGAACGGGAGTTT
GGCAACTACCTTTTCCGCCAGAATCGTTTCTATGATGCCAAAGTGAGATATAAAAGGGCC
CTGTTGCTTCTGCGCCGGCGATCAGCACCCCTGAAGAGCAGCACCTGGTGGAGGCCGCC
AAGCTTCCTGTTCTCCTGAACCTGTCTTTTACATACCTGAAGCTAGACCGACCCACCATA
GCCCTGTGCTATGGAGAGCAGGCTTTGATCATTGACCAAGAATGCCAAGGCCCTCTTC
AGGTGTGGACAGGCTTGTCTTCTCCTGACTGAGTATCAAAAGGCCCGGGATTTTCTAGTT
CGAGCCAGAAAGGAGCAACCTTCAATCATGACATCAATAATGAGCTGAAGAACTGGCT
AGCTGTTACAGGGACTATGTGGATAAAGAGAAAGAAATGTGGCACCGCATGTTTCGCGCCC
TGTGGCGATGGTTCTACAGCAGGAGAAAGTTGAAGGTTCTTACCTACCAACGAGGGGAG
AGAGCTGTGGTTCTCCATCATTGGGGGAGTGAAGGGAGCTCCAGCGCAGCCGTGGCAG
CCACCTTCCAGGAGCAGGGGCTGGAATGTCTGTGGCCGCATCTCTCATGGACGCGGCTG
AAACGTGTTTTACAGGTGCTGTTTTCTGTTTTCCGTGTTCTGTAACAGAAGGGAGGGGAA
AGCGCAGCTACTGACAAGTAGAACTGCTACTTTTTTTAAGGCAGTTTCTTGTTTTTTT
AGACGGAATTAGTCCTTGCTTCCCTCCCAGTCCCAGCCCTGCTTCCGGCTGCGAATGTC
CCTGAGTCAACACCAATAGAGATTGCTTTGTGTATTTTGTAGGGTTCTCTGTTTTGAAGA
CAGAATTATGTTACAAATGTTTTTGTGTAAATAAATAAAACACTTCCTTGTCTTGC

Gene 426. >ENST00000320425 cDNA sequence

ATGGCGGGTCTGACGGCGGGCGGCCCGGGCCCGGAGTCCTCCTGCTCCTGCTGTCCATC
CTCCACCCCTCTCGGCCTGGAGGGGTCCCTGGGGCCATTCTGGTGGAGTTCTGGAGGA
GTCTTTTATCCAGGGGCTGGTCTCGGAGCCCTTGGAGGAGGAGCGCTGGGGCCTGGAGGC
AAACCTCTTAAGCCAGGACCTCACCCATCCTCCCTCCGAGGGCTCGGCGCCTTCCCC
GCAGTTACCTTTCGGGGGCTCTGGTGCCTGGTGGAGTGGCTGACGCTGCTGCAGCCTAT
AAAGCTGCTAAGGCTGGCGCTGGGCTTGGTGGTGTCCAGGAGTTGGTGGCTTAGGAGTG
TCTGCAGGTGCGGTGGTTCTCAGCCTGGAGCCGGAGTGAAGCCTGGGAAAGTGCCGGGT
GTGGGGCTGCCAGGTGTATACCCAGGTGGCGTGCTCCAGGAGCTCGGTTCCCGGTGTG
GGGTGCTCCCTGGAGTTCCCACTGGAGCAGGAGTTAAGCCCAAGGCTCCAGGTGTAGGT
GGAGCTTTTGTGGAATCCAGGAGTTGGACCCTTTGGGGGACCGCAACCTGGAGTCCCA
CTGGGGTATCCCATCAAGGCCCCCAAGCTGCCTGGTGGCTATGGACTGCCCTACACCACA

FIGURE 1 (CONT'D)

GGGAAACTGCCCTATGGCTATGGGCCCCGAGGAGTGGCTGGTGCAGCGGGCAAGGCTGGT
TACCCAACAGGGACAGGGGTTGGCCCCCAGGCAGCAGCAGCAGCGGCAGCTAAAGCAGCA
GCAAAGTTCGGTGCTGGAGCAGCCGGAGTCCTCCCTGGTGTTGGAGGGGCTGGTGTTCTT
GGCGTGCTGGGGCAATTCCTGGAATTGGAGGCATCGCAGGCGTTGGGACTCCAGCTGCA
GCTGCAGCTGCAGCAGCAGCCGCTAAGGCAGCCAAGTATGGAGCTGCTGCAGGCTTAGTG
CCTGGTGGGCCAGGCTTTGGCCCCGGGAGTAGTTGGTGTCCTCAGGAGCTGGCGTTCCAGGT
GTTGGTGTCCTCAGGAGCTGGGATTCCAGTTGTCCAGGTGCTGGGATCCCAGGTGCTGCG
GTTCCAGGGGTTGTGTCAACAGAAGCAGCTGCTAAGGCAGCTGCAAAGGCAGCCAAATAC
GGGGCCAGGCCCGGAGTCGGAGTTGGAGGCATTCTACTTACGGGGTTGGAGCTGGGGGC
TTTCCCGGCTTTGGTGTCGGAGTCGGAGGTATCCCTGGAGTCGCAGGTGTCCCTGGTGTC
GGAGGTGTTCCCGGAGTCGGAGGTGTCCCGGGAGTTGGCATTTCCTCCGAAGCTCAGGCA
GCAGCTGCCGCCAAGGCTGCCAAGTACGGAGTGGGGACCCAGCAGCTGCAGCTGCTAAA
GCAGCCGCCAAGCCGCCAGTTTGGGTTAGTTCTCTGGTGTCGGCGTGGCTCCTGGAGTT
GGCGTGGCTCCTGGTGTCGGTGTTGGCTCCTGGAGTTGGCTTGGCTCCTGGAGTTGGCGTG
GCTCCTGGAGTTGGTGTTGGCTCCTGGCGTTGGCGTGGCTCCCGGCATTGGCCCTGGTGGA
GTTGCAGCTGCAGCAAAATCCGCTGCCAAGGTGGCTGCCAAGGCCAGCTCCGAGCTGCA
GCTGGGCTTGGTGCTGGCATCCCTGGACTTGGAGTTGGTGTCGGCGTCCCTGGACTTGGA
GTTGGTGCTGGTGTTCTTGGACTTGGAGTTGGTGCTGGTGTTCTTGGCTTCGGGGCAGGT
GCAGATGAGGGAGTTAGGCGGAGCCTGTCCCTGAGCTCAGGGAAGGAGATCCCTCCTCC
TCTCAGCACCTCCCAGCACCCCTCATCACCCAGGGTACCTGGAGCCCTGGCTGCCGCT
AAAGCAGC CAAATATGGAGCAGCAGTGCCTGGGGTCTTGGAGGGCTCGGGGCTCTCGGT
GGAGTAGGCATCCAGGCGGTGTGGTGGGAGCCGGACCCGCCCGCCGCTGCCGAGCC
AAAGCTGCTGCCAAAGCCGCCAGTTTGGCCTAGTGGGAGCCGCTGGGCTCGGAGGACTC
GGAGTCGGAGGGCTTGGAGTTCCAGGTGTTGGGGGCTTGGAGGTATACCTCCAGCTGCA
GCCGCTAAAGCAGCTAAATACGGTGCTGCTGGCCTTGGAGGTGTCTAGGGGGTGCCTGGG
CAGTTCCCACTTGGAGGAGTGGCAGCAAGACCTGGCTTCGGATTGTCTCCATTTTCCA
GGTGGGGCCTGCCTGGGGAAAGCTTGTGGCCGGAAGAGAAAATGA

Gene 427. >ENST00000309678 cDNA sequence

ATGGCGGGTCTGACGGCGGCGGCCCCGCGGCGGAGTCCTCCTGCTCCTGCTGTCCATC
CTCCACCCCTCTCGGCCTGGAGGGGTCCTGGGGCCATTCTCTGGTGGAGTTCTTGGAGGA
GTCTTTTATCCAGGGGCTGGTCTCGGAGCCCTTGGAGGAGGAGCGCTGGGGCCTGGAGGC
AAACCTCTTAAGCCAGGACCTCACCCCATCCTCCCTCCGAGGGCTCGGCGCCTTCCCC
GCAGTTACCTTTCCGGGGGCTCTGGTGCTGGTGGAGTGGCTGACGCTGCTGCAGCCTAT
AAAGCTGCTAAGGCTGGCGCTGGGCTTGGTGGTGTCCTCAGGAGTTGGTGGCTTAGGAGTG
TCTGCAGGTGCGGTGGTTCTCAGCCTGGAGCCGGAGTGAAGCCTGGGAAAGTGCCGGGT
GTGGGGCTGCCAGGTGTATACCCAGGTGGCGTGCTCCAGGAGCTCGGTTCCTCGGTGTG
GGGGTGCTCCTGGAGTTCCCACTGGAGCAGGAGTTAAGCCCAAGGCTCCAGGTGTAGGT
GGAGCTTTTGCTGGAATCCAGGAGTTGGACCCTTGGGGGACCGCAACCTGGAGTCCCA
CTGGGGTATCCCATCAAGGCCCCCAAGCTGCCTGGTGGCTATGGACTGCCCTACACCACA
GGGAAACTGCCCTATGGCTATGGGCCCCGAGGAGTGGCTGGTGCAGCGGGCAAGGCTGGT
TACCCAACAGGGACAGGGGTTGGCCCCCAGGCAGCAGCAGCAGCGGCAGCTAAAGCAGCA
GCAAAGTTCGGTGCTGGAGCAGCCGGAGTCCTCCCTGGTGTTGGAGGGGCTGGTGTTCTT
GGCGTGCTGGGGCAATTCCTGGAATTGGAGGCATCGCAGGCGTTGGGACTCCAGCTGCA
GCTGCAGCTGCAGCAGCAGCCGCTAAGGCAGCCAAGTATGGAGCTGCTGCAGGCTTAGTG
CCTGGTGGGCCAGGCTTTGGCCCCGGGAGTAGTTGGTGTCCTCAGGAGCTGGCGTTCCAGGT
GTTGGTGTCCTCAGGAGCTGGGATTCCAGTTGTCCAGGTGCTGGGATCCCAGGTGCTGCG
GTTCCAGGGGTTGTGTCAACAGAAGCAGCTGCTAAGGCAGCTGCAAAGGCAGCCAAATAC
GGGGCCAGGCCCGGAGTCGGAGTTGGAGGCATTCTACTTACGGGGTTGGAGCTGGGGGC
TTTCCCGGCTTTGGTGTCGGAGTCGGAGGTATCCCTGGAGTCGCAGGTGTCCCTGGTGTC
GGAGGTGTTCCCGGAGTCGGAGGTGTCCCGGGAGTTGGCATTTCCTCCGAAGCTCAGGCA
GCAGCTGCCGCCAAGGCTGCCAAGTACGGGTAGTTCTTGGTGTCGGCGTGGCTCCTGGA
GTTGGCGTGGCTCCTGGTGTCGGTGTTGGCTCCTGGAGTTGGCTTGGCTCCTGGAGTTGGC
GTGGCTCCTGGAGTTGGTGTTGGCTCCTGGCGTTGGCGTGGCTCCCGGCATTGGCCCTGGT
GGAGTTGCAGCTGCAGCAAAATCCGCTGCCAAGGTGGCTGCCAAGGCCAGCTCCGAGCT

FIGURE 1 (CONT'D)

GCAGCTGGGCTTGGTGCTGGCATCCCTGGACTTGGAGTTGGTGTCGGCGTCCCTGGACTT
GGAGTTGGTGCTGGTGTTCTGGACTTGGAGTTGGTGCTGGTGTTCTGGCTTCGGGGCA
GTACCTGGAGCCCTGGCTGCCGCTAAAGCAGCCAAATATGGAGCAGCAGTGCTGGGGTC
CTTGGAGGGCTCGGGGCTCTCGGTGGAGTAGGCATCCCAGGCGGTGTGGTGGGAGCCGGA
CCCGCCGCCGCTGCCGAGCCAAAGCTGCTGCCAAAGCCGCCAGTTTGGCCTAGTG
GGAGCCGCTGGGCTCGGAGGACTCGGAGTCGGAGGGCTTGGAGTTCCAGGTGTTGGGGGC
CTTGGAGGTATACCTCCAGCTGCAGCCGCTAAAGCAGCTAAATACGGAGTGGCAGCAAGA
CCTGGCTTCGGATTGTCTCCCATTTTCCAGGTGGGGCCTGCCTGGGGAAAGCTTGTGGC
CGGAAGAGAAAATGA

Gene 428. >ENST00000320492 cDNA sequence

ATGGCGGGTCTGACGGCGGGCCCCCGGGCCCGGAGTCTCTGCTCCTGCTGTCCATC
CTCCACCCCTCTCGGCCTGGAGGGGTCCCTGGGGCCATTCTGGTGGAGTTCTGGAGGA
GTCTTTTATCCAGGGGCTGGTCTCGGAGCCCTTGGAGGAGGAGCGCTGGGGCCTGGAGGC
AAACCTCTTAAGCCAGGGCTCGGCGCCTTCCCCGAGTTACCTTTCCGGGGGCTCTGGTG
CCTGGTGGAGTGGCTGACGCTGCTGCAGCCTATAAAGCTGCTAAGGCTGGCGCTGGGCTT
GGTGGTGTCCAGGAGTTGGTGGCTTAGGAGTGTCTGCAGGTGCGGTGGTTCTCAGCCT
GGAGCCGGAGTGAAGCCTGGGAAAGTGCCGGGTGTGGGGCTGCCAGGTGTATACCCAGGT
GGCGTGCTCCAGGAGCTCGGTTCCCCGGTGTGGGGGTGCTCCCTGGAGTTCCCACTGGA
GCAGGAGTTAAGCCCAAGGCTCCAGGAGTTGGACCCTTTGGGGGACCGCAACCTGGAGTC
CCTACTGGGGTATCCCATCAAGGCCCCCAAGCTGCCTGGCTATGGGCCCGGAGGAGTGGCT
GGTGACGCGGCAAGGCTGGTTACCAACAGGGACAGGGGTTGGCCCCCAGGCAGCAGCA
GCAGCGGCAGCTAAAGCAGCAGCAAGTTTCGGTGCTGGAGCAGCCGGAGTCTCCCTGGT
GTTGGAGGGGCTGGTGTTCTGGCGTGCTGGGGCAATTCCTGGAATTGGAGGCATCGCA
GGCGTTGGGACTCCAGCTGCAGCTGCAGCTGCAGCAGCAGCCGCTAAGGCAGCCAAGTAT
GGAGCTGCTGCAGGCTTAGTGCTGGTGGGCCAGGCTTTGGCCCGGGAGTAGTTGGTGTC
CCAGGAGCTGGCGTTCCAGGTGTTGGTGTCCAGGAGCTGGGATTCCAGTTGTCCAGGT
GCTGGGATCCAGGTGCTGCGGTTCCAGGGGTTGTGTCAACAGAAGCAGCTGCTAAGGCA
GCTGCAAAGGCAGCCAAATACGGGGCCAGGCCCGGAGTCCGAGTTGGAGGCATTCTACT
TACGGGGTTGGAGCTGGGGGCTTTCCCGGCTTTGGTGTCCGAGTCCGAGCCGAAGCTCAG
GCAGCAGCTGCCGCCAAGGCTGCCAAGTACGGGTTAGTTCTGGTGTCCGCGTGGCTCCT
GGAGTTGGCGTGGCTCCTGGTGTCCGTGTGGCTCCTGGAGTTGGCTTGGCTCCTGGAGTT
GGCGTGGCTCCTGGAGTTGGTGTGGCTCCTGGCGTTGGCGTGGCTCCCGGCATTGGCCCT
GGTGGAGTTGCAGCTGCAGCAAAATCCGCTGCCAAGGTGGCTGCCAAAGCCCAGCTCCGA
GCTGCAGCTGGGCTTGGTGCTGGCATCCCTGGACTTGGAGTTGGTGTCCGCGTCCCTGGA
CTTGGAGTTGGTGCTGGTGTTCTGGACTTGGAGTTGGTGCTGGTGTTCTGGCTTCGGG
GCAGTACCTGGAGCCCTGGCTGCCGCTAAAGCAGCCAAATATGGAGCAGCAGTGCTGGG
GTCCTTGGAGGGCTCGGGGCTCTCGGTGGAGTAGGCATCCCAGGCGGTGTGGTGGGAGCC
GGACCCGCCGCCGCTGCCGAGCCAAAGCTGCTGCCAAAGCCGCCAGTTTGGCCTA
GTGGGAGCCGCTGGGCTCGGAGGACTCGGAGTCGGAGGGCTTGGAGTTCCAGGTGTTGGG
GGCCTTGGAGGTATACCTCCAGCTGCAGCCGCTAAAGCAGCTAAATACGGTGCTGCTGGC
CTTGGAGGTGTCTAGGGGGTGCCGGGCAGTTCCCACTGGAGGAGTGGCAGCAAGACCT
GGCTTCGGATTGTCTCCCATTTTCCAGGTGGGGCCTGCCTGGGGAAAGCTTGTGGCCGG
AAGAGAAAATGA

Gene 429. >ENST00000252034 cDNA sequence

GTCCCTGGGGCCATTCTGGTGGAGTTCTGGAGGAGTCTTTTATCCAGGGGCTGGTCTC
GGAGCCCTTGGAGGAGGAGCGCTGGGGCCTGGAGGCAAACCTCTTAAGCCAGGACCTCAC
CCCATCCTCCCTCCGAGGGCTCGGCGCCTTCCCGCAGTTACCTTTCCGGGGGCTCTG
GTGCTGGTGGAGTGGCTGACGCTGCTGCAGCCTATAAAGCTGCTAAGGCTGGCGCTGGG
CTTGGTGGTGTCCAGGAGTTGGTGGCTTAGGAGTGTCTGCAGGTGCGGTGGTTCTCAG
CCTGGAGCCGGAGTGAAGCCTGGGAAAGTGCCGGGGCCTGCAAGGCCTGCCTTCCTACAC
TCACTGCTTTGTCCCCCGGAGGAGCTCGGTTCCCCGGTGTGGGGGTGCTCCCTGGAGTT
CCCACTGGAGCAGGAGTTAAGCCCAAGGCTCCAGGTGTAGGTGGAGCTTTTGTCTGGAATC
CCAGGAGTTGGACCCTTTGGGGGACCGCAACCTGGAGTCCCACTGGGGTATCCCATCAAG
GCCCCAAGCTGCCTGGTGGCTATGGACTGCCCTACACCACAGGGAAACTGCCCTATGGC

FIGURE 1 (CONT'D)

TATGGGCCCCGGAGGAGTGGCTGGTGCAGCGGGCAAGGCTGGTTACCCAACAGGGACAGGG
GTTGGCCCCCAGGCAGCAGCAGCAGCGGCAGCTAAAGCAGCAGCAAAGTTCGGTGCTGGA
GCAGCCGGAGTCCTCCCTGGTGTGGAGGGGCTGGTGTTCCTGGCGTGCCTGGGGCAATT
CCTGGAATTGGAGGCATCGCAGGCGTTGGGACTCCAGCTGCAGCTGCAGCTGCAGCAGCA
GCCGCTAAGGCAGCCAAGTATGGAGCTGCTGCAGGCTTAGTGCCTGGTGGGCCAGGCTTT
GGCCCCGGAGTAGTTGGTGTCCAGGAGCTGGCGTTCCAGGTGTTGGTGTCCAGGAGCT
GGGATTCCAGTTGTCCAGGTGCTGGGATCCAGGTGCTGCGGTTCCAGGGGTTGTGTCA
CCAGAAGCAGCTGCTAAGGCAGCTGCAAAGGCAGCCAAATACGGGGCCAGGCCCGGAGTC
GGAGTTGGAGGCATTCTACTTACGGGGTTGGAGCTGGGGGCTTTCCCGGCTTTGGTGTC
GGAGTCGGAGGTATCCCTGGAGTCGCAGGTGTCCCTGGTGTGGAGGTGTTCCCGGAGTC
GGAGGTGTCCCGGGAGTTGGCATTTCCTCCGAAGCTCAGGCAGCAGCTGCCGCCAAGGCT
GCCAAGTACGGTGCTGCAGGAGCAGGAGTGCTGGGTGGGCTAGTGCCAGGTGCCCCAGGC
GCAGTCCCAGGTGTGCCGGGCACGGGAGGAGTGCCAGGAGTGGGGACCCAGCAGCTGCA
GCTGCTAAAGCAGCCGCCAAAGCCGCCAGTTTGCTCTTCTCAATCTTGCAAGGGTTAGTT
CCTGGTGTTCGGCGTGGCTCCTGGAGTTGGCGTGGCTCCTGGTGTTCGGTGTGGCTCCTGGA
GTTGGCTTGGCTCCTGGAGTTGGCGTGGCTCCTGGAGTTGGTGTGGCTCCTGGCGTTGGC
GTGGCTCCCGGCATTGGCCCTGGTGGAGTTGCAGCTGCAGCAAATCCGCTGCCAAGGTG
GCTGCCAAAGCCAGCTCCGAGCTGCAGCTGGGCTTGGTGTGGCATCCCTGGACTTGGA
GTTGGTGTTCGGCGTCCCTGGACTTGGAGTTGGTGTGGTGTTCCTGGACTTGGAGTTGGT
GCTGGTGTTCCTGGCTTCGGGGCAGTACCTGGAGCCCTGGCTGCCGCTAAAGCAGCCAAA
TAT

Gene 430. >ENST00000320399 cDNA sequence

ATGGCGGGTCTGACGGCGGGCGGCCCGGGCCCGGAGTCCTCCTGCTCCTGCTGTCCATC
CTCCACCCCTCTCGGCCTGGAGGGGTCCCTGGGGCCATTCTGGTGGAGTTCTGGAGGA
GTCTTTTATCCAGTTACCTTTCCGGGGGCTCTGGTGCCTGGTGGAGTGGCTGACGCTGCT
GCAGCCTATAAAGCTGCTAAGGCTGGTGTGGAGCAGCCGGAGTCCTCCCTGGTGTGGA
GGGGCTGGTGTTCCTGGCGTGCCTGGGGCAATTCTGGAATTGGAGGCATCGCAGCTGCA
GCAGCAGCCGCTAAGGCAGCCAAGTATGGAGCTGCTGCAGGCTTAGTGCCTGGTGGGCCA
GGCTTTGGCCCCGGAGTAGTTGGTGTCCAGGAGCTGGCGTTCCAGGTGTTGGTGTCCCA
GGAGCTGGGATTCCAGTTGTCCAGGTGCTGGGATCCAGGTGCTGCGGTTCCAGGGGTT
GTGTACCAGAAGCAGCTGCTAAGGCAGCTGCAAAGGCAGCCAAATACGGGGCCAGGCC
GGAGTCGGAGTTGGAGGCATTCTACTTACGGGGTTGGAGCTGGGGGCTTTCCCGGCTTT
GGTGTTCGGAGTCGGAGGTATCCCTGGAGTCGCAGGTGTCCCTGGTGTTCGGAGGTGTTCC
GGAGTCGGAGGTGTCCCGGGAGTTGGCATTTCCTCCGAAGCTCAGGCAGCAGCTGCCGCC
AAGGCTGCCAAGTACGGGTTAGTTCTGGTGTTCGGCGTGGCTCCTGGAGTTGGCGTGGCT
CCTGGTGTTCGGTGTGGCTCCTGGAGTTGGCTTGGCTCCTGGAGTTGGCGTGGCTCCTGGA
GTTGGTGTGGCTCCTGGCGTTGGCGTGGCTCCCGGCATTGGCCCTGGTGGAGTTGCAGCT
GCAGCAAATCCGCTGCCAAGGTGGCTGCCAAAGCCAGCTCCGAGCTGCAGCTGGGCTT
GGTGTGGCATCCCTGGACTTGGAGTTGGTGTTCGGCGTCCCTGGACTTGGAGTTGGTGT
GGTGTTCCTGGACTTGGAGTTGGTGTGGTGTTCCTGGCTTCGGGGCAGTACCTGGAGCC
CTGGCTGCCGCTAAAGCAGCCAAATATGGAGCAGCAGTGCCTGGGGTCTTGGAGGGCTC
GGGGCTCTCGGTGGAGTAGGCATCCAGGCGGTGTGGTGGGTGACTGGCTGGGTGCACCC
ACCATCAACCTGGTTGACCTGTCTATGGCCGCTGTGCCCTGCCCTCCACCCCATCCTACA
CTCCCCAGGGCGTGCGGGGCTGTGCAGACTGGGGTGCCAGGCATCTCCTCCCCACCCGG
GGTGTCCCCACATGCAGTACTGTATACCCCCCATCCCTCCCTCGGTCCACTGAACTTCAG
AGCAGTTCCCATTCCTGCCCGCCCATCTTTTGTGTCTCGCTGTGATAGATCAATAAAT
ATTTTATTTTTTGTCTCTG

Gene 431. >ENST00000265754 cDNA sequence

CGGCAAATGGCGGACTTCGACACCTACGACGATCGGGCCTACAGCAGCTTCGGCGGCGGC
AGAGGGTCCCGCGGCAGTGCTGGTGGCCATGGTTCCTCGTAGCCAGAAGGAGTTGCCACA
GAGCCCCCTACACAGCATACGTAGGAAATCTACCTTTCAATACGGTTCAGGGCGACATA
GATGCTATCTTTAAGGATCTCAGCATAAGGAGTGACGGCTAGTCAGAGACAAAGACACA
GATAAATTTAAAGGATTCTGCTATGTAGAATTCGATGAAGTGGATTCCCTTAAGGAAGCC
TTGACATACGATGGTGCACTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGC

FIGURE 1 (CONT'D)

AGAAAAACAAGATAAAGGTGGCTTTGGATTAGAAAAAGGTGGACAGATGACAGAGGCTTC
 AGGGATGACTTCTTAGGGGGCAGGGGAGGTAGTCGCCAGGCGACCGGCGAACAGGCCCC
 CCCATGGGCAGCCGCTTCAGAGATGGCCCTCCCTCCGTGGATCCAACATGGATTTAGAG
 GAACCCACAGAAGAGGAAAGAGCACAGAGACCAGACTCCAGCTTAAACCTCGAACAGTC
 GCGACGCCCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCT
 AGAGAGGAAGTCGTTCAAAAGGAGCAAGAATGAGCCTGCGGTTGGGAGGGAATGGGGCGT
 GGGGGGTAGAGCAGGACCACAGCCTGGTGAGTCCCCGGGCAGCCGTCTGCAGCCGCCA
 CTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCTTGTGAGTGCATGTGAGC
 TGTTAAACAAGTGGTTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTTTG
 TCGTTTTTTTTCTTTCTTCCGCTGCTTCCCCATTTTCTTCTGTCTTTTTCTCCTGCTC
 CTTGTTTTCCAGCAGCACATGGGGTTCTCGGAGGAGCAGAGGTGGCCGCCGTGGGGGG
 GCGTTTTGGGCTGCGGTGCTGCGTCATTTTTCTTTGCTTTCTCTTTACTTTAGACACTGG
 CCCAACTCCAGGCGTTTTCTTTTATTCCCTCAGTGCTTCTCTTCTGACCTGCATGTTGAG
 TTCTGTATTGCTGGGGCTTCCAACAAAAACCAGAGTCACTGACAGAGGGAACAGCAGAGA
 CCTTGTTGGTATTAGCTGTGATGGATATAGAGAATCAGAGGCACCTTGTTTTCACAACT
 AGGATAAAAATATCTGCAGGGTCTTTTCCATTCTATTTAGAGGGAGTCTGGCTCCATG
 ACCCCCTCCCGAGTGGACTGTCCAAGCAGATAGGCTCACACGAGAAAAGTGAGGCTGAA
 AGGGGGGGCTATGGAAGAGCGGTAGGGAGTCCACGGAGAAGATGCAGTGAATGCTTG CAT
 GCATTACACGCTGTGTGTGTGCCAGCTAGTTCACTCCTTTGCGCGTGCGTGGTGGAGGCT
 GGCTCTCTGGCTGGGTGCAGTGAATGGCCAGCGGGTTCTTTTCTGCTGGGCCAAGGCG
 CTTTGGGGGTGGAGGGGGTGGTGCTGGTGCTGCACTGGGCTGACTGCGGCGCTGACGCAG
 CGTTTTCCCCCATCCCTGTTGCCTGTGTGTTGTGTGGATCTGTTCTAGTATAGGCAACA
 TAATGAGATACTGTGCTTCCACCTCCCCTTCAGTTTCAAGGCCAAAATGGGTCTAGAATC
 TGGCACTTTACTCATTTCTTTGATAAATTGTACTATGCAGAGCTGTGAGGAACCTTCAG
 ATAGCAGTAGAGGACTGCAGCTGTCTAGGTCTGCGGCCACATCTTGGGGACACACTGGAC
 TGTTCCCATGTGCAGGGTTTCAAGCAGTTATGTGGGAGTGCTAGGGGTTAGGCTTTTGAGCT
 TGAACGCCTGCGTGTGAACAGATGAAAAATCCTTCAGTACCCAAGTCCCAGTCTGTCTTA
 TGGGGAGCAGTTTGGGGGGCGGCCGGCAGCAGGAGCCTGGGAAAGAGGCCCTCGCCAGGTG
 ATGGCAGGGCCAGGGTGGCCTGGGGCACCCAGCGGAATGTGCTTAGTATTTGGTCACCAG
 CCGTCATCCTGGGCTTTTTCTACTGTGTCTTTGTTACAAGGCCTCAGCAATCCACAGAACT
 CTCTCTCCTTCTTCCACCTGTGAGCTTCTCTGCTTCTGAGATAAGAACCATTTGTGTAA
 CACCAACACTTAACTTCAGAAAGACATGCATTATGTGGTGTAAATCAAAACCGATGCTTTC
 AGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACAACACATGCATCTAAA
 CTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAATGGAATTCCAAACACTTAAACACAT
 TCAGCTATATGACAGAAAGTAAATCTATGGATATGGTATTTTGTGAATGATCTTTTAAAT
 AAAAGAAAACCTTACGTAATATTT

Gene 432. >ENST00000265753 cDNA sequence

GACGGCAAATGGCGGACTTCGACACCTACGACGATCGGGCCTACAGCAGCTTCGGCGGCG
 GCAGAGGGTCCGCGGCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCCA
 CAGAGCCCCCTACACAGCATACGTAGGAAATCTACCTTTCAATACGGTTCAAGGCGACA
 TAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGACGGCTAGTCAGAGACAAAGACA
 CAGATAAATTTAAAGGATTCTGCTATGTAGAATTCGATGAAGTGGATTCCCTTAAGGAAG
 CCTTGACATACGATGGTGCATGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAG
 GCAGAAAAACAAGATAAAGGTGGCTTTGGATTAGAAAAAGGTGGACAGATGACAGAGGAA
 TGGGTAGCTCTCGAGAATCTAGAGGTGGATGGGATTCCCGGGATGACTTCAATTCTGGCT
 TCAGGGATGACTTCTTAGGGGGCAGGGGAGGTAGTCGCCAGGCGAACCGGCGAACAGGCC
 CCCCCATGGGCAGCCGCTTCAGAGATGGCCCTCCCTCCGTGGATCCAACATGGATTTCA
 GAGAACCCACAGAAGAGGAAAGAGCACAGAGACCAGACTCCAGCTTAAACCTCGAACAG
 TCGCGACGCCCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGC
 CTAGAGAGGAAGTCGTTCAAAAGGAGCAAGAATGAGCCTGCGGTTGGGAGGGAATGGGGC
 GTGGGGGGTGTAGAGCAGGACCACAGCCTGGTGAGTCCCCGGGCAGCCGTCTGCAGCCGC
 CACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCTTGTGAGTGCATGTCA
 GCTGTAAACAAGTGGTTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTT
 TGTGCGTTTTTTTTCTTTCTTCCGCTGCTTCCCCATTTTCTTCTGTCTTTTTCTCCTGC

FIGURE 1 (CONT'D)

TCCTTGT TTTTCCAGCAGCACATGGGGTTCCTCGGAGGAGCAGAGGTGGCCGCCGTGGGG
GGGCGTTTGGGCTGCGGTGCTGCGTCATTTTTCTTTGCTTTCTCTTTACTTTAGACACT
GGCCCAACTCCAGGCGTTTCTTTTCATTCCCTCAGTGCTTCTCTTCTGACCTGCATGTTG
AGTTCTGTATTGCTGGGGCTTCCAACAAAAACCAGAGTCACTGACAGAGGGAACAGCAGA
GACCTTGTTGGTATTAGCTGTGATGGATATAGAGAATCAGAGGCACCTTGTTTTTCAAA
CTAGGATAAAAAATATCTGCAGGGTCTTTTCCATTCCCTATTTAGAGGGAGTCTGGCTCCA
TGACCCCTCCCGAGTGGACTGTCCAAGCAGATAGGCTCACACGAGAAACAGTGAGGCTG
AAAGGGGGGGCTATGGAAGAGCGGTAGGGAGTCCACGGAGAAGATGCAGTGAATGCTTGC
ATGCATTACACGTGTGTGTGTCCCAGCTAGTTCACTCCTTTCGCCGTGCGTGGTGGAGG
CTGGCCTCTCTGGCTGGGTGCAGTGAATGGCCAGCGGGTTTCTTTTCTGCTGGGCCAAGG
CGCTTTGGGGGTGGAGGGGTGGTGTCTGGTGTGCACTGGGCTGACTGCGGCGCTGACGC
AGCGTTTCCCCCATCCCTGTTGCCTGTGTGTGTGTGGATCTGTTCTAGTATAGGCAA
CATAATGAGATACTGTGCTTCCACCTCCCCTTCAGTTCAGAGCCAAAATGGGTCTAGAA
TCTGGCACTTTACTCATTTCTTTGATAAATTGTACTATGCAGAGCTGTCAGGAACCTTC
AGATAGCAGTAGAGGACTGCAGCTGTCTAGGTCTGCGGCCACATCTTGGGGACACACTGG
ACTGTTCCCATGTGCAGGGTTCAGCAGTTATGTGGGAGTGCTAGGGTTAGGCTTTTGAG
CTTGAACGCCTGCGTGTGAACAGATGAAAAATCCTTCAGTACCCAAGTCCAGTCTGTCC
TATGGGGAGCAGTTTGGGGGCGGCCGGCAGCAGGAGCCTGGGAAAGAGGCCCTCGCCAGG
TGATGGCAGGGCCAGGGTGGCCTGGGGCACCAGCGGAATGTGCTTAGTATTTGGTCACC
AGCCGTCTCTGGGCTTTTTCTACTGTGTCTTGTACAAGGCCTCAGCAATCCACAGAA
CTCTCTCTCTCTTCCCTCCACCTGTGAGCTTCTCTGCTTCTGAGATAAGAACCATTTGTGT
AACACCAACACTTAACCTCAGAAAGACATGCATTATGTGGTGTAAATCAAACCCGATGCTT
TCAGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACAAAACACATGCATCTA
AACTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAATGGAATTCAAAACACTTAACAC
ATTGAGCTATATGACAGAAAGTAAATCTATGGATATGGTATTTTGTGAATGATCTTTTAA
ATAAAGAAAACCTTACGTAATATTT

Gene 433. >ENST00000306312 cDNA sequence

AGGCAGCGGCTGTGGAGCGCGGGCGGGCGGCTCCGCCAGGGCAGCCCGGGCTGGGCCAA
GGAGCGAGCTCTCCCTTCTCCTGCTCTCAGCCTCAGTGATCAAGGCTTCAGTGAACTGCA
CTGGAGCTCCCGAGCGGGGGATCTTGTCCCCTGTCCCGACTTTTGTGCTGCACATTGGATC
TGGTGACACTCAGGAAATGCTTGTCTCCGGCTGTTAAGGAATAATTTAGAGTACTATGG
ATCATGCTGAAGAAAATGAAATCCTTGCAGCAACCCAGAGGTAATATGTGGAAAGGCCTA
TCTTTAGTCATCCGGTCTCCAGGAAAGACTACACACAAAGGACAAGGTTCTGATTCCA
TTGCGGATAAGCTGAAAACAGGCATTACATGTACTCCTAAAAAATAAGAAATATCATTT
ATATGTTCTTACCATAACTAAATGGCTGCCAGCATACAAATTCAGGAATATGTGTTGG
GTGACTTGGTCTCAGGCATAAGCACAGGGGTGCTTCAGCTTCTCAAGGCTTAGCCTTTG
CAATGCTGGCAGCTGTGCCTCCAATATTTGGCCTGTACTCTTCATTTTACCCTGTTATCA
TGTATTGTTTTCTTGAACCTCCAGACACATATCCATAGGTCCTTTTGCTGTTATTAGCC
TGATGATTGGTGGTGTAGCTGTTTCGATTAGTACCAGATGATATAGTCATTCCAGGAGGAG
TAAATGCAACCAATGGCACAGAGGCCAGAGATGCCTTGAGAGTGAAAGTCGCCATGTCTG
TGACCTTACTTTTCAAGGAATCATTTCAGTTTTTGCCTAGGTGTCTGTAGGTTTGGATTTGTGG
CCATATATCTCACAGAGCCTCTGGTCCGTGGGTTTACCACCGCAGCAGCTGTGCATGTCT
TCACCTCCATGTTAAATATCTGTTTGGAGTTAAACAAAGCGGTACAGTGGAATCTTTT
CCGTGGTGTATAGTACAGTTGCTGTGTTGCAGAATGTTAAAAACCTCAACGTGTGTTCCC
TAGGCGTCGGGCTGATGGTTTTTGGTTTTGCTGTTGGGTGGCAAGGAGTTTAAATGAGAGAT
TTAAAGAGAAATTGCCGGCGCCTATTCTTTAGAGTTCTTTGCGGTGTAATGGGAACCTG
GCATTTTCAGCTGGGTTTAACTTGAAAGAATCATACAATGTGGATGTGTTGGAACACTTC
CTCTAGGGCTGTACCTCCAGCCAATCCGGACACCAGCCTCTTCCACCTTGTGTACGTAG
ATGCCATTGCCATAGCCATCGTTGGATTTTCAGTGACCATCTCCATGGCCAAGACCTTAG
CAAATAAACATGGCTACCAGGTTGACGGCAATCAGGAGCTCATTGCCCTGGGACTGTGCA
ATTCCATTGGCTCACTCTTCCAGACCTTTTCAATTTTCATGCTCCTTGTCTCGAAGCCTTG
TTCAGGAGGGAACCGGTGGGAAGACACAGCTTGCAGGTTGTTTGGCCTCATTAATGATTC
TGCTGGTCAATATAGCAACTGGATTCTCTTTGAATCATTTGCCCGAGGCTGTGCTGTGCG
CCATTGTGATTGTCAACCTGAAGGGAATGTTTATGCAGTTCTCAGATCTCCCCTTTTTCT

FIGURE 1 (CONT'D)

GGAGAACCAGCAAAATAGAGCTGACCATCTGGCTTACCACTTTTGTGTCTCTTGTTC
TGGGATTGGACTATGGTTTGATCACTGCTGTGATCATTGCTCTGCTGACTGTGATTTACA
GAACACAGAGTCCAAGCTACAAAGTCTTGGAAAGCTTCTGAAACTGATGTGTATATTG
ATATAGACGCATATGAGGAGGTGAAAGAAATTCTGGAATAAAAATATTTCAAATAAATG
CACCAATTTACTATGCAAATAGCGACTTGTATAGCAATGCATTAAAAAGAAAGACTGGAG
TGAAACCAGCAGTCATCATGGGAGCAAGGAGAAAGGCCATGCGGAAGTACGCTAAGGAAG
TCGGAAATGCAAATATGGCCAAAGCAACTGTTGTCAAAGCAGATGCAGAAGTAGATGGAG
AGGATGCTACCAAGCCTGAAGAAGAGGATGGTGAAGTAAAATATCCCCAATAGTGATCA
AAAGCACATTTCTGAGGAAATGCAAAGATTTATGCCCCAGGGGATAACGTCCACACTG
TCATTTTGGATTTCACTCAAGTCAATTTTATTGATTCTGTTGGAGTGAAAACCTCTGGCAG
GGATTGTAAAAGAATATGGAGACGTGGTATATATGTATACTTAGCAGGATGCAGTGCAC
AAGTTGTGAATGACCTCACTCGGAATAGATTTTTTGAAGTCTGCCCTATGGGAGCTGC
TGTTCCACAGCATTATGATGCAGTTTTAGGCAGCCAACTTAGAGAGGCACTTGCTGAAC
AGGAAGCCTCGGCTCCCCCTTCCAGGAGGACTTGGAGCCCAATGCCACTCTGCCACTC
CTGAGGCATAGATGAGGACCTCACCTAGGATGGGGTTATAAGCCTCTCATGAAGTTTAT
AATTTACACGTTTTTAAATACTAGACGCTAGATTTTTTTTTTCTAAGGGTGAATACTAGTAG
TCCAGGCTTGATTTGGAGGGTGAATGACGCCTAGCAAGATGTATTGTACTTGTGTTTTTT
TAATTGAATACTTC

Gene 434. >ENST00000006777 cDNA sequence

ATGGGGCGGGGCTCTGGGAGGCGTGGCCTCCGGCCGGCTCCTCTGCTGTTGCCAAGGGA
AACTGCCGCGAGGAGGCGGAAGGAGCAGAGGACCGGCAGCCGGCGTGGAGGCGGGGCGCG
GGAACGACGGCGGCCATGGCGGCCTCGGGGCCCCGGGTGTGCGAGCTGGTGCTTGTGTCCC
GAGGTGCCATCCGCCACCTTCTTCACTGCGCTGCTCTGCTGCTGGTTTTCCGGGCCTCGC
CTGTTTCTGCTGCAGCAGCCCCCTGGCGCCCTCGGGCCTCACGCTGAAGTCCGAGGCCCTT
CGCAACTGGCAAGTTTACAGGCTGGTAACCTACATCTTGTCTACGAGAATCCCATCTCC
CTGCTCTGCGGCGCTATCATCATCTGGCGCTTTGCTGGCAATTTGAGAGAACCCTGGGC
ACCGTCCGCCACTGCTTCTTCAACGCTGATCTTCCGCATCTTCTCCGCTATCATCTTCTG
TCATTCCGAGGCTGTGTCACTGTCAAAGCTGGGGGAAGTGGAGGATGCCAGAGGTTTC
ACCCAGTGGCCTTTGCCATGCTGGGAGTCAACACCGTCCGTTCTCGGATGAGGCGGGCC
CTGGTGTGTTGGCATGGTTGTGCCCTCAGTCTGGTTCCGTGGCTCCTGCTGGGTGCCTCG
TGGCTCATTCCCCAGACCTCTTTCCTCAGTAATGTCTGCGGGCTGTCCATCGGGCTGGCC
TATCACCTACTGCTATTCCATCGACCTCTCAGAGCGAGTGGCACTGAAGCTCGATCAGAC
CTTCCCCTTCAAGCTGATGAGGAGGATATCCGTGTTCAAGTACGTCTCAGGGTCTTCAGC
CGAGAGGAGGGCAGCCAGAGCCGGAAGTGAACCCGGTGCCTGGCTCCTACCCACACA
GAGCTGCCACCTCACCTGTCCCAAGCCACCTGTGTCCCAGACGAGCAGCCAGTGG
TCAGAAGCTGGCCTCCTGGCCTGCACCCCGGGCACATGCCACCTTGCTCCGTACCAG
CCTGCCTCCGGCCTGTGCTATGTGCAGAACCACTTTGGTCCAAACCCACCTCCTCCAGT
GTCTACCCAGCTTCTGCGGGCACCTCCCTGGGCATCCAGCCCCACGCTGTGAACAGC
CCTGGCACGGTGTATTCTGGGGCCTTGACACAGGGGCTGCAGGCTCCAAGGAGTCTCCA
GGGTCCCCATGCCCTGAGAGAATTTCTAGGGAAGTCACTCACTTGGCCTTCTGAAGGT
CTCCCTAAGAGTCTCCTGACAAAAGTTACTTATTGAACACCTCTATGTGCCAGGCTCTGT
GTTGGGTACTTTGATCAATGCCCCGTGTTTCACTCTCATCTGTACTACGGCAGCCCTGTG
GAGTACGGTGTACTGGCCAGCTTACAGATGCAGAAAGCGAGACGTTCTGCCATCAGATA
AAGTCAAGTGGCTCTTTAGTAACACGGACAAGGCTCCTCGCAAGGAACTCGTGGCAGAA
GAGGGCAGCAGTTGGCAGTAGCTGCCGATGTCTGTCCCCAGCTCCACCATTCCTCCCTGT
GGCTGTGCCGTGCTCGTGGTTTTCACTGTCCGTGTGTCCATGTGTCTGCCCTTCAGGAGCT
CGCAGCTGGTGTGCTTGGCGGTCCCAGGCCTGTGTAGTGTCTCTCCCTGCTGCGGGCGC
CCCCACCCGATTCTCTCCCCAGAAGCGGTGGGATGGGCCCCCATGAACTGCAGCAGCA
TGCTGAGGTGTCCATGTTGTCTGCCTTTGTATAAAGAAACAGCCTCTGA

Gene 435. >ENST00000318622 cDNA sequence

ATGGCGGCCTCGGGGCCGGGTGTGCGAGCTGGTGTCTGTGTCCCGAGGTGCCATCCGCC
ACCTTCTTCACTGCGCTGCTCTGCTGCTGGTTTTCCGGGCCTCGCTGTTCTCTGCTGCAG
CAGCCCCTGGCGCCCTCGGGCCTCACGCTGAAGTCCGAGGCCCTTCGCAACTGGCAAGCC
ACTATGGAAGGAGGGGTGAGGATTACAGCAGAGGAGACTGGCACACAGAGTGTAAAGTGA

FIGURE 1 (CONT'D)

Gene 436. >ENST00000222902 cDNA sequence

ATGGCAGGCCTGATGACCATAGTAACCAGCCTTCTGTTCCCTTGGTGTCTGTGCCCACCAC
ATCATCCCTACGGGCTCTGTGGTCATCCCTCTCCCTGCTGCATGTTCTTTGTTTCCAAG
AGAATTCCTGAGAACCAGAGTGGTCAGCTACCAGCTGTCCAGCAGGAGCACATGCCTCAAG
GCAGGAGTGATCTTACCACCAAGAAGGGCCAGCAGTTCTGTGGCGACCCCAAGCAGGAG
TGGGTCCAGAGGTACATGAAGAACCTGGACGCCAAGCAGAAGAAGGCTTCCCCTAGGGCC
AGGGCAGTGGCTGTCAAGGGCCCTGTCCAGAGATATCCTGGCAACCAAACACCTGCTAA

Gene 437. >ENST00000265302 cDNA sequence

CTCCTAACAGTTTCATGATCAACATGGGAGACTCCCACGTGGACACCAGCTCCACCGTGT
CCGAGGCGGTGGCCGAAGAAGTATCTCTTTTTCAGCATGACGGACATGATTCTGTTTTTCGC
TCATCGTGGGTCTCCTAACCTACTGGTTCCTCTTCAGAAAGAAAAAGAAGAAGTCCCCG
AGTTTACCAAAATTTCAGACATTGACCTCCTCTGTGAGAGAGAGCAGCTTTGTGGAAGA
TGAAGAAAACGGGGAGGAACATCATCGTGTTCTACGGCTCCCAGACGGGGACTGCAGAGG
AGTTTGGCAACCGCCTGTCCAAGGACGCCACCGCTACGGGATGCGAGGCATGTGAGCGG
ACCCTGAGGAGTATGACCTGGCCGACCTGAGCAGCCTGCCAGAGATCGACAACGCCCTGG
TGGTTTTCTGCATGGCCACCTACGGTGAGGGAGACCCACCGACAATGCCAGGACTTCT
ACGACTGGCTGCAGGAGACAGACGTGGATCTCTCTGGGGTCAAGTTTCGCGGTGTTTGGTC
TTGGGAACAAGACCTACGAGCACTTCAATGCCATGGGCAAGTACGTGGACAAGCGGCTGG
AGCAGCTCGGCGCCAGCGCATCTTTGAGCTGGGGTTGGGCGACGACGATGGGAACTTGG
AGGAGGACTTCATCACCTGGCGAGAGCAGTTCTGGCCGGCCGTGTGTGAACACTTTGGGG
TGGAAGCCACTGGCGAGGAGTCCAGCATTGCGCAGTACGAGCTTGTGGTCCACACCGACA
TAGATGCGGCCAAGGTGTACATGGGGGAGATGGGCGGCTGAAGAGCTACGAGAACCAGA
AGCCCCCTTTGATGCCAAGAATCCGTTCTCTGGCTGCAGTCAACCAACCGGAAGCTGA
ACCAGGGAACCGAGCGCCACCTCATGCACCTGGAATTGGACATCTCGGACTCCAAAATCA
GGTATGAATCTGGGGACACGTTGGCTGTGTACCCAGCCAACGACTCTGCTCTCGTCAACC
AGCTGGGCAAAATCCTGGGTGCCGACCTGGACGTCGTTCATGTCCCTGAACAACCTGGATG
AGGAGTCCAACAAGAAGCACCCATTCCCCTGCCCTACGTCTACCGCACGGCCCTCACCT
ACTACCTGGACATCACCAACCCGCCGCTACCAACGTGCTGTACGAGCTGGCGCAGTACG
CCTCGGAGCCCTCGGAGCAGGAGCTGCTGCGCAAGATGGCCTCCTCCTCCGGCGAGGGCA
AGGAGCTGTACCTGAGCTGGGTGGTGGAGGCCCCGAGGCACATCCTGGCCATCCTGCAGG
ACTGCCCCGTCCCTGCGGCCCCCATCGACACCTGTGTGAGCTGCTGCCGCGCCTGCAGG
CCCGCTACTACTCCATCGCCTCATCCTCCAAGGTCCACCCCAACTCTGTGCACATCTGTG
CGGTGGTTGTGGAGTACGAGACCAAGGCTGGCCGTCATCAACAAGGGCGTGGCCACCAACT
GGCTGCGGGCCAAGGAGCCTGCCGGGGAGAACGGCGGCCGTGCGCTGGTGCCCATGTTTCG
TGCGCAAGTCCCAGTTCCGCCTGCCCTTCAAGGCCACCACGCCTGTTCATCATGGTGGGCC
CCGGCACCGGGGTGGCACCTTCATAGGCTTCATCCAGGAGCGGGCCTGGCTGCGACAGC
AGGGCAAGGAGGTGGGGGAGACGCTGCTGTACTACGGCTGCCGCGCTCGGATGAGGACT
ACCTGTACCGGGAGGAGCTGGCGCAGTTCCACAGGGACGGTGCGCTCACCCAGCTCAACG
TGGCCTTCTCCCGGAGCAGTCCCAAGGTCTACGTCCAGCACCTGCTAAAGCAAGACC
GAGAGCACCTGTGGAAGTTGATCGAAGGCGGTGCCCACATCTACGTCTGTGGGGATGCAC
GGAAATGAGGAGGATGTGAGAACACCTTCTACGACATCGTGGCTGAGCTCGGGGCCA
TGGAGCACGCGCAGGCGGTGGACTACATCAAGAACTGATGACCAAGGGCCGCTACTCCC
TGGACGTGTGGAGCTAGGGGCTGCCTGCCCCACCCACCCACAGACTCCGGCCTGTAAT
CAGCTCTCCTGGCTCCCTCCCGTAGTCTCCTGGGTGTGTTTGGCTTGGCCTTGGCATGGG
CGCAGGCCCAGTGACAAAGACTCCTCTGGGCTGGGGTGCATCTCCTCAGCCCCCAGGC
CAGGTGAGGTCCACCGCCCCCTGGCAGCACAGCCAGGGCCTGCATGGGGGCACCGGGCT
CCATGCCTCTGGAGGCCTCTGGCCCTCGGTGGCTGCACAGAAGGGCTCTTTCTCTCTGCT
GAGCTGGGCCCAGCCCCCTCCACGTGATTTCCAGTGAGTGTAAATAATTTTAAATAACCTC
TGGCCCTTGAATAAAGTTCTGTTTTCTGT

Gene 438. >ENST00000265756 cDNA sequence

CGTTGGCCGGGCCCCGGGGAGGAGGGGAATCTCCCGCCATTTTCAATAATTTCTCCGG
TGCTGCTGAGGAGGAGTTCGTGACTGCCGGCCGCCGGGACCCGAAGCGGAGGTTCGGCGGGG
GGCTGCTGGGAGGCGCGGCGGTGTGCGCGGGAGCTCTGCGCGGTGGCGTTCCGCTCCATG
ACTGTGCGCGGGCCGCGCGGCGGTGAGGGAGCCGGAGTTCGCGCGGCCCTCTCACCCCT

FIGURE 1 (CONT'D)

CCCTTCCCCACCCACCCCCGGGCGCCTGGCGCTCGCTCCGGGCCGCGGGCCTAGTGC
 TGCGCCGCGGGGCGGGCCCCAGCAGCCGCCAGTCCCCACCGCCGCGCGCGATGGCGCC
 GCTCCTGGGCGCAAGCCCTTCCCGCTGGTGAAGCCGTTGCCCGAGAGGAGCCGCTCTT
 CACCATCCCGCACACTCAGGAGGCCTTCCGCACCCGGGAAGAGTATGAAGCCCGCTTGA
 AAGGTACAGTGAGCGCATTGACGCTGCAAGAGTACTGGAAGCAGTCAGCTAACACACAA
 GGAAGCCTGGGAGGAAGAAACAGGAAGTTGCTGAGCTTTTGAAGGAGGAGTTTCTGCCTG
 GTATGAGAAGCTTGTCTGGAAATGGTTACCATAACACAGCCTCCTTAGAGAAGTTAGT
 AGATACTGCTTGGTTGGAGATCATGACCAAATATGCTGTGGGAGAAGAGTGTGACTTCGA
 GGTGGGAAGGAGAAAATGCTCAAGGTGAAGATTGTGAAGATTATCCTTTGGAGAAAGT
 GGATGAAGAGGCCACTGAGAAGAAATCTGATGGTGCCTGTGATTCTCCATCAAGTGACAA
 AGAGAACTCCAGTCAGATTGCTCAGGACCATCAGAAGAAGGAGACAGTTGTGAAAGAGGA
 TGAAGGAAGGAGAGAGAGTATTAATGACAGAGCACGTAGATCGCCACGAAAACCTTCTAC
 TTCATTAAAAAAGGAGAAAGGAAATGGGCTCCTCCAAAATTTCTGCCTCACAAATATGA
 TGTGAAACTACAAAATGAAGATAAGATCATCAGTAACGTGCCAGCAGACAGCTTGATTGCG
 TACAGAGCGCCACCAAATAAGGAGATAGTTTCGATACTTTATACGGCATAATGCATTACG
 AGCTGGTACTGGTGAAGATGCACCTTGGGTCTGTAAGATGAATTGGTGAAGAAATACTC
 TCTGCCCAGCAAGTTCAGTGACTTTTTACTTTGATCCATACAAGTATATGACTCTCAACCC
 TTCTACTAAGAGGAAGAATACTGGATCCCCAGACAGGAAGCCCTCAAAGAAATCCAAGAC
 AGACAACTCTTCTCTTAGTTCAACCTAAATCCTAAGTTATGGTGTCACTACACTTGAA
 GAAGTCATTGAGTGGCTCGCCACTCAAAGTGAAGAACTCAAAGAATTCAAATCTCCTGA
 AGAACATCTAGAAGAAATGATGAAGATGATGTGCCCCAATAAGCTGCACACTAACTTTCA
 CATTCTTAAAAAAGGCCACCTGCCAAGAAACAGGGAAGCACAGTGACAAGCCTTTGAA
 GGCAAAGGGCAGAAGCAAAGGCATCCTGAATGGACAGAAATCCAAGGGAATTCAAATC
 TCCCCAAAAGGACTGAAGACTCCTAAAAACCAAATGAAGCAGATGACTTTGTTGGATAT
 GGCCAAAGGCACGCAGAAGATGACACGAGCCCCACGGAATTCTGGGGGTACACCTAGGAC
 CTCTAGTAAACCTCATAAACATCTGCCTCTGCGAGCCCTACACCTCATTGCATACTACAA
 AGAAAACAAAGACAGGGAGGACAAGAGGAGCGCCCTGTCCTGTGTTATCTCCAAAACAGC
 TCGTCTTCTCTCTAGTGAAGATAGAGCTCGTCTCCAGAAGAAATTGCGAAGTCTTGTTCA
 AAAACGCTATGAACTTCTAGAGCACAAAAGAGGTGGGCTTCTATGTCTGAAGAAACAACG
 GAAAGAATATTTGAAAAAGAAACGGGAGGAGCTGAAAAAGAAGTTGAAGGAAAAAGCCAA
 AGAACGAAGAGAGAAAGAAATGCTTGAGAGATTAGAAAAACAGAAGCGGTATGAGGACCA
 AGAGTTAACTGGCAAAAACCTTCCAGCATTGAGATTGGTGGATACCCCTGAAGGGCTGCC
 CAACACGCTGTTTGGGGATGTGGCCATGGTGGTGAATTTCTGAGCTGTTATTCTGGGCT
 ACTTTTACCAGATGCTCAGTATCCTATTACTGCTGTGTCCCTTATGGAAGCCTTGAGTGC
 AGATAAGGGTGGCTTTTTTATACCTTAACAGGGTGTGGTTCATCCTCTTACAGACCCTCCT
 ACAAGATGAGATAGCAGAAGACTATGGTGAATTGGGAATGAAGCTGTGCGAAATCCCTT
 GACTCTGCATTCTGTTTCAGAGCTGGTGC GGCTCTGCTTGCGCAGATCTGATGTTTCAGGA
 GGAAAGCGAGGGCTCAGACACAGATGACAATAAAGATTGAGCTGCATTTGAGGATAATGA
 GGTACAAGATGAGTTCTTAGAAAAGCTGGAGACCTCTGAATTTTGTGAGCTGACGTGAGA
 GGAGAAGCTACAGATCTTGACAGCACTGTGCCACCGGATCCTCATGACATACTCAGTGCA
 AGACCACATGGAGACCAGACAGCAGATGTCTGCAGAGTTGTGGAAGGAACGGCTTGCTGT
 GTTGAAGGAAGAAAATGATAAGAAGAGAGCAGAGAAACAGAAACGGAAAGAAATGGAAGC
 CAAAAATAAAGAAAATGGAAAAGTTGAGAATGGGTAGGCAAACTGATAGGAAAAAAGA
 AATTGTGAAGTTTGAGCCCCAAGTAGATACAGAAGCTGAAGACATGATTAGTGCTGTGAA
 GAGCAGAAGGTTGCTTGCCATTCAAGCTAAGAAGGAACGGGAAATCAGGAAAGAGAAAT
 GAAAGTGAACTGGAAACGCCAAGCTGAAGAAGAACGAATACGGAAGCACAAAGCAGCTGC
 TGAGAAAGCTTTCCAGGAAGGGATTGCCAAGGCCAACTAGTCATGCGCAGGACTCCTAT
 TGGCACAGATCGAAACCATAATAGATACTGGCTCTTCTCAGATGAAGTTCCAGGATTATT
 CATTGAAAAAGGCTGGGTACATGACAGCATTGACTACCGATTCAACCATCACTGCAAAGA
 CCACACAGTCTCTGGTGTAGAGGATTACTGTCCTCGCAGTAAGAAAGCAAACCTTAGGTAA
 AAATGCAAGCATGAACACACAACATGGAAACAGCAACAGAAGTTGCTGTAGAGACAACCAC
 ACCCAAACAAGGACAGAACCTATGGTTTTTATGTGATAGTCAAAAGGAGCTGGATGAGTT
 GCTAAACTGTCTTACCCTCAGGGAATAAGAGAAAGTCAACTTAAAGAGAGACTAGAGAA
 GAGGTACCAGGACATTATTCACTCTATTCTATGACACGGAAGCCAAATTTGGGTCTAAA

FIGURE 1 (CONT'D)

ATCTTGTGATGGCAACCAGGAGCTTTTAAACTTCCTTCGTAGTGATCTCATTGAAGTTGC
AACAAGGTTACAAAAAGGAGGACTTGGATATGTGGAAGAAACATCAGAATTTGAAGCCCG
GGTCATTTTCATTAGAGAAATTGAAGGATTTTGGTGAGTGTGTGATTGCCCTTCAGGCCAG
TGTCTATAAAGAAATTTCTCCAAGGCTTCATGGCTCCCAAGCAAAAGAGAAGAAAACCTCA
AAGTGAAGATTGAGCAAAAACCTGAGGAAGTGGATGAAGAGAAGAAAATGGTAGAGGAAGC
AAAGGTTGCATCTGCACTGGAGAAATGGAAGACAGCAATCCGGGAAGCTCAGACTTTCTC
CAGGATGCACGTGCTGCTTGGGATGCTTGATGCCTGTATCAAGTGGGATATGTCCGCAGA
AAATGCTAGGTGCAAAGTTTGTGCAAGAAAGGTGAGGATGACAAATTGATCTTGTGTGA
TGAGTGTAATAAAGCCTTCCACCTGTTTTGTCTGAGGCCGGCCCTCTATGAAGTACCAGA
TGGTGAGTGGCAGTGCCAGCTTGCCAGCCCGCTACTGCCAGGCGCAACTCCCGTGGCAG
GAACTATACTGAAGAGTCTGCTTCTGAGGACAGTGAAGATGATGAGAGTGATGAAGAGGA
GGAGGAGGAAGAAGAGGAGGAGGAGGAAGAAGATTATGAGGTGGCTGTTTTGCGATTGAG
ACCTCGAAAGACCATCCGGGGCAAGCACAGCGTCATCCCCCTGCAGCAAGGTCAGGCCG
GCGCCCGGGTAAGAAGCCACACTCTACCAGGAGGTCTCAGCCCAAGGCACCACCTGTGGA
TGATGCTGAGGTGGATGAGCTGGTCTTCAGACCAAGCGGAGCTCCCGGAGGCAAAGCCT
GGAGCTGCAGAAGTGTGAAGAGATCCTCCACAAGATCGTGAAGTACCGCTTCAGCTGGCC
CTTCAGGGAGCCTGTGACCAGAGATGAGGCCGAGGACTACTATGATGTGATCACGCACCC
CATGGACTTTTCAGACAGTGCAGAACAAATGTTCTGTGGGAGCTACCGCTCTGTGCAGGA
GTTTTCTTACTGACATGAAGCAAGTGTTTACCAATGCTGAGGTTTACAACCTGCCGTGGCAG
CCATGTGCTAAGCTGCATGGTGAAGACAGAACAGTGTCTAGTGGCTCTGTTGCATAAACA
CCTTCCTGGCCACCCATATGTCCGCAGGAAGCGCAAGAAGTTTCTGTATAGGCTTGCTGA
AGATGAAGGGGACAGTGAGCCAGAGGCCGTTGGACAGTCCAGGGGACGAAGACAGAAGAA
GTAGAGAGGCAGGGCCGTGGTGACAGTATCAGTGAGTGCCATACAGAATTGTGTATTAC
CAGCATCATGAAACAGTTGTGGTCTTTTGAGTTGATCTTGGCAGAGTAAAGGGACGTGTC
CTGGAGCCATTTCCTGAATCTCCCTTCTTTGTGACAGCTCCTCCACCCCCCAAAAAT
AAAAAAACCAAAAAAACAATAAAGTCAAGGCACTTCACTTAGAGACTGGAGTCC
TGCTTATAATCATGCATATAACCTTTACTTTGATGGATCTGGCCAGAGGGGTGTTGGAGC
CCAGCCACCCACATACCAGTCAAGCTCTTAGGGGAGCAGAAGAAAAGCAGGAAGAATTT
AAATGTTTTAATTTTTTTTTTAAATTGACTTTTCTAGTTATTAAAAGTTGCTTGTTTCAGC
AGTGATATTGTATAAAGAACATCTTGTAAGATACTCCTGACATCTTGCTTTAGCACATGT
ACAGTACAGTTTTCTATGATAATGTGTTTGTCTAACTTCCCTGGCTTCTCCTTCAGCCCA
TCCACTCTCCTCTAGAGCAGTTGGGTTGGAGGCTCATTGAGGCAAGCAGCAACATTGGAG
GGGGAGCAGGGCAGTGCTGTGTCTGCTGCCTCCCATGCCCGTTCTGACCTCAGCCTTGGA
ACTCCTCAAGAACCTGAAGAAGAGCGGCAGAGAAGCTCTGAGAGCCCTTCCCCCAAC
AAATCTAGCTCTAGTTGTTATATTTAGGCAAACTTTGTAGTCTTCTTTCCCTTTTATGA
TGGATTTTTGATAAAAGTACAAAACAGGGTTTTTCTTTTTTATCACCTTTGAATTTGGAAA
TTTTTGAGCACCCAAGCTCTTCTGTACCTATTTAAAGTCCACCAAGGGGACTGCAGCTCCT
AGAACATGAGAATCAAGCCTCTTAATTTTAAACTGCGGAATGTGGCCTCTGCTTCCTCCG
TCCTCCTGCCCAAGGACGACGAGGATTGCTCCAGGGCTGCTGGGTAGTTTACCGTCCCTT
CTATAGGCATGGAGTTGGCACTGACATCACAGCTTCATAACCCACACCGCCAGCTTCC
CCTGCCTCCTACATCAGTCTGTTCTTGTTCATAGTGAGAATCCTGTGTTCCCACTTCAG
TGACACCTGAATTGTTTGTGTTGTTTTTTTTTTTATTGTCTTCAAAGAGGAAGGGCCC
CATTAAGGGTGAACTTGTAATAAATTGGAATTTCAAATAAACCTCATGTACTTGTGTTT
ATAAAGAAGAAACCA

Gene 439. >ENST00000055077 cDNA sequence

GGTGGCGGGAAGAGGAGGCGCGAGAATGGAGGTGGAGGCCGTCTGTGGTGGCGGGCGA
GGTGGAGGCCAGGACTCTGACCCTGCCCCCTGCCTTCAGCAAGGCCCCCGGCAGCGCCGG
CCACTACGAACTGCCGTGGGTGAAAAATATAGGCCAGTAAAGCTGAATGAAATTGTCGG
GAATGAAGACACCGTGAGCAGGCTAGAGGTCTTTGCAAGGGAAGGAAATGTGCCCAACAT
CATCATTGCGGGCCCTCCAGGAACCGGCAAGACCACAAGCATTCTGTGCTTGGCCCGGGC
CCTGCTGGGCCCAGCACTCAAAGATGCCATGTTGGAACCTCAATGCTTCAAATGACAGGGG
CATTGACGTTGTGAGGAATAAAATTAAATGTTTGTCTCAACAAAAAGTCACTCTTCCAA
AGGCCGACATAAGATCATCATTCTGGATGAAGCAGACAGCATGACCGACGGAGCCAGCA
AGCCTTGAGGAGAACCATGGAATCTACTCTAAAACCACTCGCTTCGCCCTTGCTTGTA

FIGURE 1 (CONT'D)

TGCTTCGGATAAGATCATCGAGCCCATTCAGTCCCGCTGTGCAGTCCTCCGGTACACAAA
GCTGACCGACGCCCAGATCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACC
CTACACTGATGACGGCCTAGAAGCCATCATCTTCACGGCCCAGGGAGACATGAGGCAGGC
GCTGAACAACCTGCAGTCCACCTTCTCAGGATTTGGCTTCATTAACAGTGAGAACGTGTT
CAAGGTCTGTGACGAGCCCCACCCACTGCTGGTAAAGGAGATGATCCAGCACTGTGTGAA
TGCCAAACATTGACGAAGCCTACAAGATTCTTGCTCACTTGTGGCATCTGGGCTACTCACC
AGAAGATATCATTGGCAACATCTTTCGAGTGTGTAAAACCTTCCAAATGGCAGAATACCT
GAAACTGGAGTTTATCAAGGAAATTGGATACACTCACATGAAAATAGCGGAAGGAGTGAA
CTCTCTTTTGCAGATGGCAGGCCTCCTGGCAAGGCTGTGTGAGAACAATGGCCCCGGT
GGCCAGTTAGAGCAGAGACTTCACTGACTGACTTACAGGTGCCCTATTCTGAGGTACAGG
AGCCGCGGCTTTCTGATGGGGGAAAATGCCGCCTTAGGCTGGAGCCAACATGACTGTCCT
TTAAACTCCAGTGGCTGGCCAGGCACGGTAGCTCACGCCTGTAATCCCAACACTTTGGGA
GGCCGAGGCAGGTGGATCACCTGAGGTGAGAAGTTCAAGACCAGCCTGGCCAACATGGGG
AAACCCTGTCTTTACTAAAAATATAAAAAATTAGCTGGGTGTGGTGGCGGGCACCTGTAAT
CCCAGCTACTCGGGAGGCTGTGGCAGGAGAATCGCTTGAACCCAGGAGGTGGAGGTTGCA
GTGAGCCAAGATCACACCATTGCACTCCAGCCTGGGCGACAGAGTCTCCATCTGGGGAAA
AAAATTAAATAAATAAACTCCCGTGACTTGCATGTTTGTCTCTGGGACGTCTGTGCCCCG
CAAGTGTGTTGAGTTTGGCCTCCACCCATTGATGCGGTGACGGGGCGGAAAGGCGCAGAG
AAGCTGAGGGCGGTCTCTGATCTGTGTGTGGGTTGACATTTTAGCTAATAAAGCCTTGCA
GTGTTTGTGGC

Gene 440. >ENST00000275627 cDNA sequence

CGAGAATGGAGGTGGAGGCCGTCTGTGGTGGCGCGGGCGAGGTGGAGGCCAGGACTCTG
ACCCTGCCCCCTGCCTTCAGCAAGGCCCCCGGCAGCGCCGGCCACTACGAACTGCCGTGGG
TTGAAAAATATAGGCCAGTAAAGCTGAATGAAATTGTGCGGAATGAAGACACCGTGAGCA
GGCTAGAGGTCTTTGCAAGGGAAGGAAATGTGCCAACATCATCATTGCGGGCCCTCCAG
GAACCGGCAAGACCACAAGCATTCTGTGCTTGGCCCCGGGCCCTGCTGGGCCCAGCACTCA
AAGATGCCATGTTGGAACCTCAATGCTTCAAATGACAGCATGACCGACGGAGCCCAGCAAG
CCTTGAGGAGAACCATGGAAATCTACTCTAAAACCACTCGCTTCGCCCTTGCTTGTAATG
CTTCGGATAAGATCATCGAGCCCATTCAGTCCCGCTGTGCAGTCCTCCGGTACACAAAGC
TGACCGACGCCCAGATCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACCCT
ACACTGATGACGGCCTAGAAGCCATCATCTTCACGGCCCAGGGAGACATGAGGCAGGCGC
TGAAACAACCTGCAGTCCACCTTCTCAGGATTTGGCTTCATTAACAGTGAGAACGTGTTCA
AGGTCTGTGACGAGCCCCACCCACTGCTGGTAAAGGAGATGATCCAGCACTGTGTGAATG
CCAACATTGACGAAGCCTACAAGATTCTTGCTCACTTGTGGCATCTGGGCTACTCACCAG
AAGATATCATTGGCAACATCTTTCGAGTGTGTAAAACCTTCCAAATGGCAGAATACCTGA
AACTGGAGTTTATCAAGGAAATTGGATACACTCACATGAAAATAGCGGAAGGAGTGAACT
CTCTTTTGCAGATGGCAGGCCTCCTGGCAAGGCTGTGTGAGAACAATGGCCCCGGTGG
CCAGTTAGAGCAGAGACTTCACTGACTGACTTACAGGTGCCCTATTCTGAGGTACAGGAG
CCGCGGCTTTCTGATGGGGGAAAATGCCGCCTTAGGCTGGAGCCAACATGACTGTCCTTT
AAACTCCAGTGGCTGGCCAGGCACGGTAGCTCACGCCTGTAATCCCAACACTTTGGGAGG
CCGAGGCAGGTGGATCACCTGAGGTGAGAAGTTCAAGACCAGCCTGGCCAACATGGGGAA
ACCCTGTCTTTACTAAAAATATAAAAAATTAGCTGGGTGTGGTGGCGGGCACCTGTAATCC
CAGCTACTCGGGAGGCTGTGGCAGGAGAATCGCTTGAACCCAGGAGGTGGAGGTTGCAGT
GAGCCAAGATCACACCATTGCACTCCAGCCTGGGCGACAGAGTCTCCATCTGGGGAAAAA
AATTAAATAAATAAACTCCCGTGACTTGC

Gene 441. >ENST00000309368 cDNA sequence

ATTATCTTGCTCCCTGTCTATTGGAGTGTATCTCTCTTCTCTGTGTGACTTTTTGTG
TTTATGTGTGTGTTTAGTGTGTGTCCATATTTTCTGTTCTCTTGTGTCTCTCTGCTGTG
TCTCTCTCTTTTCTTTCTGTTTTTTGAGACGGAGTCTCCCTCTGTACCCAGGCTGGAG
TGCAAGTGGTGCATCTCGGCTCACTGCAACCTCTGCTTCTGAGGTCAAACGATTCTCCT
GCCTCAGCCTCCCGAGTAGCTGGAATTACAGACACATGCCACCATGCCAGCTAATTTTG
TATTTTTAATAGAGACGGGGTTTACCATTGATCCACCCGCCTCGGCCTCCCAAAGTTTT
TGGATTACAGGTGTGAGCCACCTCGCCCGGTCTATCTCTCTTTCTCTCTTTCTCCCTC
TCACTTTGTTTCTCTTCTCTCTCTCTCTCCCGCCTCCTTCCCCCGTCTCCCTCCCTTC

FIGURE 1 (CONT'D)

CCCCACCGCCCTCTTCATAGCTGAGCCTGTCCGGCAGTGCGGCGGATGTACGGATGATT
 AGTGGCTGGCAGGAAGCCCGCCCTGCCCGCCCGCCAGTGTAGTGGTGTGGCATCAGCT
 TGGGCAGGTGTGCGGGCTCAGGATGGGGCGGCCGTGGTGAGGAACCTGGACTCTCAGCA
 TCACAAGAGGCAACACCAGGAGCCAACATGAGCTCGGGGACTGAACTGCTGTGGCCGGA
 GCAGCGCTGCTGGTGTGTTGGGGGTGGCAGCCAGTCTGTGTGTGCGCTGCTCAGCCCCA
 GGTGCAAAGAGGTGAGAGAAAATCTACCAGCAGAGAAGTCTGCGTGAGGACCAACAGAGC
 TTTACGGGGTCCCGGACCTACTCCTTGGTCGGGCAGGCATGGCCAGGACCCCTGGCGGAC
 ATGGCACCCACAAGGAAGGACAAGCTGTTGCAACCCAGCCTGGAGGATCCAGCATCTTC
 CAGGTACCAGAACTTCAGCAAAGGAAGCAGACACGGGTGGAGGAAGCCTACATAGACCC
 CATTGCCATGGAGTATTACAACTGGGGGCGGTTCTCGAAGCCCCAGAAGAGCCGATGAT
 GATGCCAATTCTACGAGAATGTGCTCATTTGCAAGCAGAAAACCAAGAGACAGGTGCC
 CAGCAGGAGGGCATAGGTGGCCTCTGCAGAGGGGACCTCAGCCTGTCACTGGCCCTGAAG
 ACTGGCCCCACTTCTGGTCTCTGTCCCTCTGCCTCCCCGGAAGAAGATGAGGAATCTGAG
 GATTATCAGAACTCAGCATCCATCCATCAGTGGCGCGAGTCCAGGAAGGTATGGGGCAA
 CTCCAGAGAGAAGCATCCCCTGGCCCCGGGAAGCCAGACGAGGAGGACGGGGAAACCGGA
 TTACGTGAATGGGGAGGTGGCAGCCACAGAAGCCTAGGGCAGACCAAGAAGAAAGGAGCC
 AAGGCAAAGAGGGACCACTGTGCTCATGGACCCATCGCTGCCTTCCAAGGACCATTTCCTC
 AGAGCTACTCAACTTTTAAGCCCTGCCATGGTTGCTCCTGGAAGGAGAACCAGCCACCC
 TGAGGACCACTGGCCATGCGTGCA CAGCCTGGGAAAAGACAGTTACTCAGGGAGCTGC
 AGGCCCGTCAACAAGCCCTCTCCCGACCCAGGCTTTGTGGGGCAGGCACTGGTACCAAG
 GGTAAACCCGGCTCCTGGTATGGACGGATGCGCAGGATTTAGGATAAGCTGTCAACCACTC
 CCCATAACAAAACCACTGTCCAACACTGGTATCTGTGTTCTTTTGTGCTATGAATTTGGA
 TTCTTAATTGCTATTGTTGGTTGCTGGGGTTTTAAATGATTGATAAGCTTGTACAGTTAA
 CTTATAGAGGGGGAGCCATATTTAACTTCTGGATTTTCAAGTAGAGATTTCTGTGTTGT
 CTCTAGAAAGCATTACATGTAGTTTATTTTCAAGCATCCTTGTGGGTGGGGCCCTGGCTC
 TCTTCCCCTTTGGTGGGACCTCCCCTTTCTTTGGGCTTCAGTTCACTCAGGAAGAAATGA
 GGCTGTGCGCCATCTTTATGTGCTTCAGTGGAAATGTCACTTGCTACAGACAATAGTGCA
 TGAGAGTCTAGAGAAGTAGTGACCAAGAGGGCAGAGTAGGTCCCCTCCATGGCCCTGA
 ATCCTCCTCTGCTCCAGGGCTGGCCTCTGCAGAGCTGATTAAACAGTGTGTTGTGACTGTCT
 CATGGGAAGAGCTGGGGCCCAGAGGGACCTTGAGTCAGAAATGTTGCCAGAAAAAGTATC
 TCCTCCAACCAAAACATCTCAATAAAACCATTTTAGTTG

Gene 442. >ENST00000315652 cDNA sequence

CAGTGGCGGCGATGTACGGATGATTAGTGGCTGGCAGGAAGCCCGCCCTGCCCGCCCGC
 CAGTGTAGTGGTGTGGCATCAGCTTGGGCAGGTGTGCGGGCTCAGGATGGGGCGGCCG
 TGGTGAGGAACCTGGACTCTCAGGCATCACAAGAGGCAACACCAGGAGCCAACATGAGC
 TCGGGGACTGAACTGCTGTGGCCCCGAGCAGCGCTGCTGGTGTGTTGGGGGTGGCAGCC
 AGTCTGTGTGTGCGCTGCTCAGCCCCAGGTGCAAAGAGGTGAGAGAAAATCTACCAGCAG
 AGAAGTCTGCGTGAGGACCAACAGAGCTTTACGGGGTCCCGGACCTACTCCTTGGTGGG
 CAGGCATGGCCAGGACCCCTGGCGGACATGGCACCACAAAGGAAGGACAAGCTGTTGCAA
 TTCTACCCAGCCTGGAGGATCCAGCATCTTCAGGTACCAGAACTTCAGCAAAGGAAGC
 AGACACGGGTGGAGGAAGCCTACATATGATGATGCCAATTCCTACGAGAATGTGCTCAT
 TTGCAAGCAGAAAACCAAGAGACAGGTGCCAGCAGGAGGGCATAGGTGGCCTCTGCAG
 AGGGGACCTCAGCCTGTCACTGGCCCTGAAGACTGGCCCCACTTCTGGTCTCTGTCCCTC
 TGCCTCCCCGGAAGAAGATGAGGAATCTGAGGATTATCAGAACTCAGCATCCATCCATCA
 GTGGCGCGAGTCCAGGAAGGTATGGGGCAACTCCAGAGAGAAGCATCCCCTGGCCCGGT
 GGGAAAGCCAGACGAGGAGGACGGGGAAACCGGATTACGTGAATGGGGAGGTGGCAGCCAC
 AGAAGCCTAGGGCAGACCAAGAAGAAAGGGAGCCAAGGCAAAGAGGGACCACTGTGCTCA
 TGGACCCATCGCTGCCTTCCAAGGACCATTTCCAGAGCTACTCAACTTTTAAGCCCTG
 CCATGGTTGCTCCTGGAAGGAGAACCAGCCACCCTGAGGACCACTGGCCATGCGTGAC
 AGCCTGGGAAAAGACAGTTACTCAGGGAGCTGCAGGCCCGTCACCAAGCCCTCTCCGA
 CCCAGGCTTTGTGGGGCAGGCACCTGGTACCAAGGGTAACCCGGCTCCTGGTATGGACGG
 ATGCGCAGGATTTAGGATAAGCTGTCAACCACTCCCATAACAAAACCACTGTCCAACAC
 TGGTATCTGTGTTCTTTTGTGCTATGAATTTGGATTCTTAATTGCTATTGTTGGTTGCTG
 GGGTTTTAAATGATTGATAAGCTTGTACAGTTAACTTATAGAGGGGGAGCCATATTTAAC

FIGURE 1 (CONT'D)

ATTCTGGATTTT CAGAGTAGAGATTT CTGTGTTGTCTCTCTAGAAAGCATTACATGTAGTTT
 ATTTTCAGCATCCTTGTTGGGTGGGGCCCTGGCTCTCTTCCCCTTTGGTGGGACCTCCCCT
 TTCTTTGGGCTTCAGTTCACTCAGGAAGAAATGAGGCTGTCCGATCTTTATGTGCTTCC
 AGTGGAAATGTCACTTGCTACAGACAATAGTGCATGAGAGTCTAGAGAAGTAGTGACCAG
 AACAGGGCAGAGTAGGTCCCCTCCATGGCCCTGAATCCTCCTCTGCTCCAGGGCTGGCCT
 CTGCAGAGCTGATTAAACAGTGTTGTGACTGTCTCATGGGAAGAGCTGGGGCCCAGAGGG
 ACCTTGAGTCAGAAATGTTGCCAGAAAAAGTATCTCCTCCAACCAAAACATCTCAATAAA
 ACCATTTTAGTTG

Gene 443. >ENST00000005180 cDNA sequence

AGGGCCGTCTCAGTCTCATAAAAGGGGATCAGGCAGGAGGAGTTTGGGAGAAACCTGAGA
 AGGGCCTGATTTGCAGCATCATGATGGGCCTCTCCTTGGCCTCTGCTGTGCTCCTGGCCT
 CCCTCCTGAGTCTCCACCTTGGAACCTGCCACACGTGGGAGTGACATATCCAAGACCTGCT
 GCTTCCAATACAGCCACAAGCCCCCTTCCCTGGACCTGGGTGCGAAGCTATGAATTACCA
 GTAACAGCTGCTCCAGCGGGCTGTGATATTCACTACCAAAGAGGCAAGAAAGTCTGTA
 CCCATCCAAGGAAAAAATGGGTGCAAAAATACATTTCTTTACTGAAAACCTCGAAACAAT
 TGTGACTCAGCTGAATTTTTCATCCGAGGACGCTTGGACCCGCTCTTGGCTCTGCAGCCC
 TCTGGGGAGCCTGCGGAATCTTTTCTGAAGGCTACATGGACCCGCTGGGGAGGAGAGGGT
 GTTTCCTCCCAGAGTTACTTTAATAAAGGTTGTTTCATAGAGTTGACTTGTTTCAT

Gene 444. >ENST00000292535 cDNA sequence

CCGCGGCGCGGGGACAGCCCCGGGACTCTGCCAGGTGGATGTTGTGCGTAGCCGGAGCCA
 GGTTGAAGAGAGAACTCGATGCCACCGCAACGGTATTGGCGAACCGGCAGGATGAAAGTG
 AGCAGTCCAGAAAGCGGCTTATCGAACAGAGCCGGGAGTTCAAGAAGAACTCCAGAGG
 ATTTGCGCAAGCAGGTAGCGCCGCTGCTGAAGAGTTTCCAAGGAGAGATTGATGCACTGA
 GTAAAAGAAGCAAGGAAGCTGAAGCAGCTTTCTTGAATGTCTACAAAAGATTGATTGACG
 TCCCAGATCCCGTACCAGCTTTGGATCTCGGACAGCAACTCCAGCTCAAAGTGCAGCGCC
 TGCACGATATTGAAACAGAGAAC CAGAACTTAGGGAACTCTGGAAGAATACAACAAGG
 AATTTGCTGAAGTGAAAAATCAAGAGGTTACGATAAAAGCACTTAAAGAGAAAAATCCGAG
 AATATGAACAGACACTGAAGAACCAAGCCGAAACCATAGCTCTTGAGAAGGAACAGAAGT
 TACAGAATGACTTTGCAGAAAAGGAGAGAAAGCTGCAGGAGACACAGATGTCCACCACCT
 CAAAGCTGGAGGAAGCTGAGCATAAGGTTTCAAGCCTACAAACAGCCCTGGAAAAAACTC
 GAACAGAATTATTTGACCTGAAAACCAAATACGATGAAGAACTACTGCAAAGGCCGACG
 AGATTGAAATGATCATGACGGACCTTGAAAGGGCAAACCAGAGGGCAGAGGTGGCTCAGA
 GAGAGGCGGAGACCTTAAGGGAACAGCTCTCATCGGCCAATCACTCCCTCAGCTGGCCT
 CACAGATCCAGAAGGCACCAGACGTGGAGCAGGCCATAGAGGTGCTGACCCGCTCCAGCC
 TAGAAGTTGAGTTGGCCGCAAGGAGCGGGAGATCGCACAGCTGGTGGAGGACGTG CAGA
 GACTCCAGGCCAGCCTCACCAAGCTGCGGGAGAATTGCGCCAGCCAGATCTCACAGCTTG
 AGCAGCAGCTGAGCGCCAAAAACAGCACACTCAAACAACTGGAAGAAAAACTCAAAGGCC
 AGGCTGACTATGAAGAGGTGAAGAAAGAGCTGAACATTCTGAAGTCCATGGAGTTTGCAC
 CGTCCGAGGGCGCTGGGACACAGGATGCGGCCAAGCCCCTGGAGGTGCTGTTGCTGGAGA
 AGAACCGCTCGCTGCAGTCCGAGAACGCCGCGCTGCGCATCTCCAACAGCGACCTGAGCG
 GGTGAGCCAGGAGGAAAGGGAAAGACCAGCCTGAAAGTCGGCGCCCGGGATCTTTGCCGG
 CCCCCCTCCTTCTCAGTTGCCCGCAACCCGGGGGAGCAGGCTTCCAATACTAATGGTA
 CACACCAGTTCTCACCAGCGGGGTTAAGTCAAGACTTTTTTCAGCTCATCCCTGGCAAGCC
 CCAGCCTACCCCTGGCTTCTACAGGAAAATTTGCACTAAACTCTCTTCTCCAGCGGCAGC
 TAATGCAGTCTTCTACTCCAAGGCTATGCAGGAAGCCGGAAGCACAAGCATGATTTTTT
 CAACAGGTCCATACAGCACAACTCCATATCTTCCCAAAGTCCATTACAACAAAGCCCAG
 ATGTCAATGGCATGGCCCCATCCCCCAGCCAGTCAGAAAGTGCTGGGAGCGTCTCCGAGG
 GCGAGGAGATGGACACTGCAGAAATCGCCCGGCAGGTCAAAGAGCAGCTGATTAAAGCACA
 ATATCGGACAAACGTATTTTTCGGACATTATGTGTTGGGACTGTCTCAAGGGTCCGTGAGCG
 AGATTCTGGCCCGGCCCAAGCCATGGAATAAACTGACTGTTTCGTGGCAAGGAGCCATTTC
 ACAAGATGAAACAGTTCTCTCCGATGAGCAGAACATCCTGGCCCTCCGTAGCATCCAAG
 GCAGACAAAGAGAGAATCCAGGCCAGAGCCTGAACAGACTATTTTCAGGAAGTACCGAAAC
 GAAGAAATGGGTCTGAAGGTAACATCACCACCCGGATCCGAGCCTCGGAGACTGGCTCTG
 ATGAAGCCATCAAGTCCATCCTAGAGCAAGCCAAGAGGGAGCTCCAAGTGCAGAAAACTG

FIGURE 1 (CONT'D)

CAGAGCCGGCCAGCCTTCTCCGCATCCGGCAGCGGGAACCTCTGATGACGCCATCCGCT
 CCATCCTGCAGCAAGCCCGCCGGGAGATGGAGGCCAGCAGGCTGCCCTCGACCCTGCCT
 TAAAGCAGGCA CCACTGTCCAGAGTGACATCACCATCCTCACCCCAAGCTTCTGTCCA
 CCTCGCCCATGCCACCGTGTCCAGCTACCCACCTCTCGCCATCTCCCTGAAGAAGCCCT
 CCGCAGCTCCTGAGGCCGGTGCCTCTGCTCTGCCGAACCCCGGCCCTCAAAAAGGAGG
 CCCAGGACGCCCCGGGTGGACCCCCAGGGAGCAGCCGATTGTGCACAAGGGGTCTGA
 GACAGGTGAAAAATGAGGTGGGCCGAGCGGTGCCTGGAAGGACCACTGGTGGAGCGCGG
 TGCAGCCGGAGAGAAGAAATGCCGCCTCCTCCGAGGAGGCCAAGGCCGAAGAAAAGGGCG
 GCGGGAAAGAGAAGGGCAGCGGTGGCAGCGGAGGTGGCAGCCAGCCTCGGGCCGAGCGCA
 GTCAGCTCCAGGGACCCCTCGTGTGTCAGAGTACTGGAAGGAGTGGCCAGCGCTGAGTCCC
 CATACTCCAGAGCTCAGAGCTGAGTCTGACCGGGGCCAGCCGAGCGAGACACCACAGA
 ACAGCCCCCTGCCATCCTCCCGGATCGTGCCCATGTCCAAGCCCAACAAGCCCTCGGTCC
 CCCCCTGACCCCCGAGCAGTACGAGGTCTACATGTACCAGGAGGTGGACACCATCGAGC
 TCACCCGGCAGGTTAAGGAAAAGCTGGCCAAGAACGGCATCTGCCAGAGAATCTTCGGGG
 AGAAGGTGCTGGGCCTGTCCAGGGCAGCGTCAGCGACATGCTGTCCGACCGAAGCCAT
 GGAGCAAGCTGACGCAGAAAGGCCGAGAACCTTCATCCGGATGCAGCTCTGGCTGAACG
 GCGAGCTAGGCCAGGGTGTTCTACCCGTCCAGGGCCAGCAGCAAGGGCCAGTCTCTCACT
 CCGTGACATCGCTCCAGGACCCGCTGCAGCAGGGCTGTGTGAGCTCAGAAAGCACTCCAA
 AGACCTCCGCCAGCTGCAGCCCTGCCCCGTGAGTCCCCGATGAGTTCCAGTGAGTCGGTGA
 AGAGCCTGACCGAGCTGGTCCAGCAGCCCTGTCCCCCATCGAGGCGAGCAAGGACAGCA
 AGCCACCAGAGCCCAGTGACCCGCCAGCATCCGACTCCAGCCCAACAACCCGCTGCCTC
 TCTCCGGACA CTGGCCCTCAGCATCCAAGAATTAGTAGCCATGTCCCCGGAGCTGGACA
 CCTACGGCATAACCAAGCGGGTGAAGGAGGTGCTGACGGACAACAACCTCGGCCAGCGCT
 TATTTGGGGAGACCATCTTAGGGCTCACCCAAGGCTCTGTCTCTGACCTCCTTGCCCGCC
 CCAAACCTGGCATAAGCTCAGTCTGAAAGGACGAGAGCCCTTCGTCCGGATGCAGCTGT
 GGCTGAACGACCCCAACAATGTGGAGAAGCTGATGGACATGAAAAGGATGGAGAAGAAAG
 CCTACATGAAGCGGCGGCACAGCTCAGTCAGTGACAGCCAGCCCTGCGAACCGCCCTCTG
 TCGGCACCGAGTACAGCCAGGGCGCCAGCCCCAGCCCCAGCACCAGCTGAAGAAACCCC
 GGGTGGTGCTGGCTCCGGAGGAGAAGGAGGCGCTGAAACGAGCGTATCAGCAAAAGCCAT
 ACCCGTCAACAAAAACCATCGAAGACCTCGCCACCCAGCTCAACCTGAAAACAGCACCG
 TCATCAACTGGTTCCACAACTACAGGTCTCGGATCCGCAGAGAACTGTTCAATTGAGGAAA
 TTCAGGCCGGGAGTCAGGGCCAGGCGGGCGCCAGCGACTCACCTCGGCCCGCAGCGGCC
 GGGCGGCGCCAGCTCGGAGGGCGACAGCTGCGACGGCGTGGAGGCCACTGAGGGCCCAG
 GCAGCGCCGACACCGAGGAGCCCAAGTCTCAGGGAGAGGCCGAGCGGGAGGAGGTGCCGC
 GGCCGGCGGAGCAGACGGAGCCGCCGCCCTCGGGGACCCCGGGCCCGGACGACGCCCGCG
 ACGACGACCAAGAGGAGGCCCGGTGGAAGGCCCGGGGCCCCCTGCCAGCCCCGCTCCG
 CGACCGCCACCGCCGCGCCCGCGGCCCCGAGGACGCCGCTACCTCAGCCGCCGCGCGC
 CGGGGGAGGGCCCCGCGGCCCGAGCTCCGCGCCGCCCGCCAGCAACAGCAGCAGCA
 GCGCCCCCGCAGGCCAGCTCGCTGCAGAGCCTTTTCGGCCTCCCCGAGGCCGCGGGCG
 CCCGGGACTCGCGCGACAACCCCTGCGCAAGAAGAAGGCCGCGAACTTGAACAGCATCA
 TCCACCGCCTGGAGAAGGCCGCCAGCCGGGAGGAACCTATCGAATGGGAGTTCTGAGGGG
 CCGCGGCCCTGGGGCGGGCAGCCAGGCTGGGCCGCAAGGGCCTGGACGGGGTGGGACGGG
 GCAGGCGCTGCGGACACCGTGGCCTGGGCTTGGCCCGCGGCCTGCACCGACCCCGGGCCG
 GACCTGAGCCCGCAGCCAGACCCCTCCAAGGTCCGCGGCCTGCACCGACCCGAGGCC
 AGATCCAAGGCCGCGGCCAGACCCA CTCTGCGGCCCGGGCCGACCTGCGGCCTCCACC
 AACCCCGCGGCCAGACCCAGCCCGCGGCCTGGACCCCTGGACCGCTTTGCGCACTTACC
 GCCCTGCGGGCCACAGGGCAAAATCGCCATAGGCCAAGGTGCATATAGAAAACAAAGGAG
 CATTAAAGCCCAATCTATGTGTGTTTTTCAAGGAAGAAAACGGAAATGTGTGGTTCGAGCTT
 TTTTGTACCTGAAGTGTTTTTTTATTGCCCTAAGTGATTTCCACAGGTTCTGGAATAA
 CTCTTACAGCTTTGCCTTGTGTCTCCTGTTCCGTGTGGGCTTTAAAGAAAAAAATCA
 AACCCACATATTAAAGGGGGCTTTTATCTGCCATCTAATGGCTTCAGAGCGATAATAC
 ACTATTATCTTCTTAAACAGGAAAAAATAAAGGGGGGTGGGATTTTTCAGAAAAATT
 AAAAAAGAAAGTTTTTGTAGCTGTTTCAGTTGCCACTAAGAGATTGCACAGTCAAAACGAC
 TCTAAACACACTAGTTTGGATTCTTAAATATTTTCAAGAAAAGAATCTTCTCGTTTGAAA

FIGURE 1 (CONT'D)

CTTTGAATTAAAATAAAACACATTTACTCCACAT

Gene 445. >ENST00000292538 cDNA sequence

CGTCTCAATATGTCTCAAGATGGCGGCCAATGTGGGATCGATGTTTCAATATTGGAAGCG
CTTTGATTTACAGCAGCTGCAGAGAGAACTCGATGCCACCGCAACGGTATTGGCGAACCG
GCAGGATGAAAGTGAGCAGTCCAGAAAGCGGCTTATCGAACAGAGCCGGGAGTTCAAGAA
GAACACTCCAGAGGATTTGCGCAAGCAGGTAGCGCCGCTGCTGAAGAGTTTCCAAGGAGA
GATTGATGCACTGAGTAAAGAAGCAAGGAAGCTGAAGCAGCTTTCTTGAATGTCTACAA
AAGATTGATTGACGTCCAGATCCCGTACCAGCTTTGGATCTCGGACAGCAACTCCAGCT
CAAAGTGACGCGCTGCACGATATTGAAACAGAGAACCAGAACTTAGGGAACTCTGGA
AGAATACAACAAGGAATTTGCTGAAGTGAAAAATCAAGAGGTTACGATAAAAGCACTTAA
AGAGAAAATCCGAGAATATGAACAGACACTGAAGAACCAAGCCGAAACCATAGCTCTTGA
GAAGGAA CAGAAGTTACAGAATGACTTTGCAGAAAAGGAGAGAAAGCTGCAGGAGACACA
GATGTCCACCACCTCAAAGCTGGAGGAAGCTGAGCATAAGGTTTCAGAGCCTACAAACAGC
CCTGGAAAAAACTCGAACAGAATTATTTGACCTGAAAACCAAATACGATGAAGAACTAC
TGCAAAGGCCGACGAGATTGAAATGATCATGACGGACCTTGAAAGGGCAAACCAGAGGGC
AGAGGTGGCTCAGAGAGAGGCGGAGACCTTAAGGGAACAGCTCTCATCGGCCAATCACTC
CCTCCAGCTGGCCTCACAGATCCAGAAGGCACCAGACGTGGAGCAGGCCATAGAGGTGCT
GACCCGCTCCAGCCTAGAAGTTGAGTTGGCCGCCAAGGAGCGGGAGATCGCACAGCTGGT
GGAGGACGTGCAGAGACTCCAGGCCAGCCTCACCAAGCTGCGGGAGAATTTCGGCCAGCCA
GATCTCA CAGCTTGAGCAGCAGCTGAGCGCGAAAAACAGCACACTCAAACAACCTGGAAGA
AAAACCTCAAAGGCCAGGCTGACTATGAAGAGGTGAAGAAAGAGCTGAACATTCTGAAGTC
CATGGAGTTTGCACCGTCCGAGGGCGCTGGGACACAGGATGCGGCCAAGCCCCTGGAGGT
GCTGTTGCTGGAGAAGAACCGCTCGCTGCAGTCCGAGAACGCCGCGCTGCGCATCTCAA
CAGCGACCTGAGCGGACGCTGTGCAGAGCTGCAAGTCCGTATCACTGAGGCTGTGGCCAC
AGCCACTGAGCAGAGAGAGCTGATCGCCCGCTGGAGCAGGACCTGAGCATCATTAGTC
CATCCAGCGGCCCCGATGCCGAGGGTGCCGCTGAGCACCGCCTGGAGAAGATCCCAGAGCC
CATCAAAGAGGCCACTGCCCTATTCTACGGACCTGCAGCACCCAGCCAGCGGTGCCCTCCC
AGAGGGCCAGGTGGATTCACTGCTTTCCATCATCTCCAGCCAGAGGGAGCGCTTCCGTGC
CCGGAAC CAGGAGCTTGAGGCCGAGAACCGCCTGGCCCAGCACCCCTCCAGGCCCTGCA
GAGTGAGCTGGACAGCCTGCGCGCCGACAACATCAAGCTCTTTGAGAAGATCAAGTTCTC
GCAGAGCTACCCTGGCCGGGGCAGCGGCAGTGATGACACGGAGCTGCGGTACTCGTCCCA
GTACGAGGAGCGCCTGGACCCCTTCTCCTCCTTCAGCAAGCGGGAGCGGCAGAGGAAGTA
CCTGAGCTTGAGTCCCTGGGACAAGGCCACCCCTCAGCATGGGGCGTCTGGTTCTCTCAA
CAAGATGGCGCGCACCATCGGCTTCTTCTACACACTGTTCTGCACTGCCTGGTCTTCTC
GGTGCTCTACAAGCTGGCATGGAGCGAGAGCATGGAGAGGGACTGTGCCACCTTCTGCGC
CAAGAAGTTGCTGACCACTGCACAAGTTCCACGAGAATGACAAACGGGGCTGCGGCTGG
TGACTTGTGGCAGTGATACCCCGGGGCTCCCCCGTGACAGTGACGGCTGCGCCTCCACC
CCGACTGCTCAGTGATCTAATCACTTAGACTCCCCCTGAAGAATCCCCCATGGAACTGC
CCTTATCCGCTGTCCAGCAGCTGCCAGAGGCCCCAGGTCACCTCGGGTCCCCCTTGAAAGA
ATGTCTCGGTACATCAGGCCCGCTAGGTCCAGAGAGCGAGCCCCAATGCCCGGCCAGG
CTAAGCCG CAGAGACCTCTCAGCCCCACCTCAGGTTAGGGCTCTGCCCGCAGCCTGAC
CTCTAGCCCTGGTGGCAGAGGTCCCTCAGCTGCGAGGCTAATTGGGTGACACCGATTCC
AGCTGCGGTTAATCCAGCTTGGGCCTGTCTGCACTGCGATCCTCTTGGGCTCTCCTAGGA
TCCCCCATGCCCCGTAAGAGGTGGAAGACGCTTCTTCCAGGACAGCAGGCTTTGAGTC
CAGCACCC CAGCCTGCCTTTGCCACCAGCCCCACCTGCAGAGTATATGAGGCTTGACA
GAGTCTGCCCCCTCCCCACTGCACCCCAAGAGAGAGAGCCCCAGCCAGCGGAACAGTTT
CTATTACCCCTCCCTGCCCCCAGACCCATGTGATTTCTGCTTTCTTTAGCAAGATA
TTCTGGTTTCTAGATAAGGAAGAGTCTCTAATGAGCCCCGAGCCCCAGTCTCTTCAGAC
TCATGGATTGGTCTGAGGGGTCTGAACGTCTCCTAGCCAATCAGAACTGGCTGTGGACCA
CCCTAGCACGGCCACCTCTCAGGGCCACTGGCAGGCCTTCCTGAGTTAGATTGTAGTTG
CATATTTAGCTTTGCACATTTGAAATAAACACGGTTGCAGCC

Gene 446. >ENST0000011473 cDNA sequence

GAGCGCACGCGTACACGCGTGCGCAGGGGAAGACCGAGTGCCAGGGGCTGAACCGCAGGG
AAGGGGGCGCGGCGCACGCAGTATGGCGCCCAACATCTACTTGGTTTCGCCAGCGGATCAG

FIGURE 1 (CONT'D)

TCGACTCGGCCAGAGGATGTCCGGCTTCCAGATCAACCTCAACCCGCTCAAGGAGCCACT
CGGCTTCATCAAGGTCTCGAGTGGATTGCTTCTATCTTTGCTTTTGCCACCTGTGGAGG
TTTTAAGGGCCAAACAGAAATTCAAGTGAATTGTCTCTGCAGTTACTGAGAATAAAAC
TGTTACAGCTACTTTTGGTTATCCATTAGGTTGAATGAGGCATCATTTCAGCCACCTCC
AGGTGTAAACATATGTGATGTAAATTGGAAAGATTACGTCTCATAGGCGATTACTCTTC
TTCTGCACAATTCTATGTTACCTTTGCAGTCTTTGTGTTCTGTACTGCATTGCTGCCCT
TCTGCTTTATGTTGGCTACACGAGTCTGTATCTGGATAGTCGTAAACTTCCTATGATAGA
CTTTGTTGTTACACTTGTGGCACTTTTTGTGGTTGGTGAGCACTTCAGCCTGGGCTAA
AGCTCTGACAGATATTAAATAGCTACTGGTCACAATATTATTGATGAACCTCCGCCTTG
TAAGAAGAAAGCAGTACTGTGTTACTTTGGCTCTGTGACCAGTATGGGATCCCTAAATGT
ATCTGTGATATTTGGCTTTCTAAATATGATACTCTGGGGAGGAAATGCTTGGTTTGTGTA
CAAGGAGACCAGCCTACACAGTCCATCAAATACATCTGCCCCCATAGCCAAGGAGGTAT
TCCACCTCCTACCGGAATATAATTAAAGGGAGAAATACACTGTATGAAGTATATGTTGAT
ACTATGACATGTTGCCAACACCTTGAGAAGCATTATTTGTTTCTAATAAAAGTAATGGCT
TTGTCAATATATTGGTGGGTTTAAACTTTGCTGCTTTTTTACATAAAGCCTGTGCCTTT
CCTAGAAAGTTAAGATGTAAATGTATTCTCACATGTAAATTTGAAAGTTCAGGGGTCTAT
TATGAAATGATACACATTTTTAAATGAACCATAATTTTTTCTACTAAGCTGTTTGCCTTC
CAAAGTGTTTACACCTTAAGCCTTAACATGTATCTTCATTAGAAAACAGTTATATTGTC
ATACCATAGTAGGAAGAAAAACCTTTATTTGGAATATACACTACTGTAAGTTTGTACAGA
TCATATACCTACCACCTGTCTTTGCTTAAAGAGCCTTGATTACATAAATATGTAGGAAAA
AACATATTGAGTTCAAAATTTATATCTAACATTGTTTATGTTATGATTTTTTTTTTAATTG
CAAAGACTAGGTGTATATTTTTTTCTGTTTTTCTAAATGACCCGTGGTACTTAATAGGTG
TACTAAATTTGTGTTGGGAGCAGGGATTGGAATTTCTGAGAGATGTGTAGTTAATTTA
GTAATTTCTGTTTCATGAGATATGATCTGTTATGCTAGTGGTTAATAGGCTTGCTATGTA
AGTAGAACGTGGCTCAACTAGATATCTTTATATGTATGGGCATTACTCTTAGTGATATTT
GTTTTCTGTCTTTTGTGCTCATGCTGTTTAAAGTGCAGGCTGAGACCCAGCCTCTTTGTA
AGTACAGTAAATAATCCACCGTTTTTTACAGACCCTAGTCAAAGGGTTAAAAAATTAA
GATTGCTTTCCATGTTTGAAATTTACCATGAGAGTCAATGAAGTTGCTATTTTGAGTTT
AGCATTGATATTGTGAAAATAAGTGCAATTTGGATTTTCATGTTTCTTAATATTCATTCTT
GTTTCACAAATGAATGATTAAGGAATTATGCATCATAAAGGAACCTAAGTGAGGTATATG
ATGAGTGTATTGTCTTTGCACACACATATAGGTATATTCTGAATACAAGCTTATTACAT
TTTGCTTCCTAATCTTTTTGTTGTACAGGGATTTCAGGTTTCTTATTCTTACAACATGATT
GTTTATATGTGAAGCACATCTTGCTGTTGCCTTATTTTTGATGCTTTTTATTTCATGACAAG
AATTGTCAATATAAGAATGTATATCTTTTTTGCAACCAATTTAATAAAGGAGTTG

Gene 447. >ENST0000249377 cDNA sequence

TATAACGTGAGGGCTGAATGCAGCCCATTCTCTGGAGAACTTCCTCACACACCCGAGCAA
AGAGAAGACTGAAAGACAAACCTGGGTGCAGCCAGAGAGGTCCAGATAGATGAGCTTGTG
GCATCCATTCCCCAAGTTTCAGCCTAGGGACTCCACGTACCCAGCTGGGTCTCATTGTTTC
CAGAACTGCATTAGTTAAGATTACCCAGACTTGGATTTCAAAGGAATACTTTTATTGTTTC
CGTCTGTAAACGAAGTAATTGGGGCCAGCTGGATGTCAGGATGCGTGTGGTTACCATTG
TAATCTTGCTCTGCTTTTGCAGGCGGCTGAGCTGCGCAAAGCAAGCCAGGCAGTGTGA
GAAGCCGAGTGAATCATGGCCGGGCGGGTGGAGGCCGGAGAGGCTCCAACCCGGTCAAAC
GCTACGCCACAGGCCTCCCGTGTGACGTGTACACATATCTCCATGAGAAATACTTAGATT
GTCAAGAAAGAAAATTAGTTTATGTGCTGCCTGGTTGGCCTCAGGATTTGCTGCACATGC
TGCTAGCAAGAAACAAGATCCGCACATTGAAGAACAACATGTTTTCCAAGTTTAAAAAGC
TGAAAAGCCTGGATCTGCAGCAGAATGAGATCTCTAAAATTGAGAGTGAGGCGTTCTTTG
GTTTAAACAACTCACCACTCTTACTGCAGCACAACCAGATCAAAGTCTTGACGGAGG
AAGTGTTTATTACACACCTCTCTTGAGCTACCTGCGTCTTTATGACAACCCCTGGCACT
GTACTTGTGAGATAGAAACGCTTATTTCAATGTTGCAGATTCCAGGAACCGGAATTTGG
GGAACCTACGCCAAGTGTGAAAGTCCACAAGAACAAAAAATAAAAACTGCGGCAGATAA
AATCTGAACAGTTGTGTAATGAAGAAGAAAGGAACAATTGGACCCGAAACCCCAAGTGT
CAGGGAGACCCCCAGTCATCAAGCCTGAGGTGGACTCAACTTTTTGCCACAATTATGTGT
TTCCCATACAAACACTGGAAGTCAAGGAAAGAGTTGAAAAAGTGCCAAACAACATCC
CTCCAGATATTGTTAACTTGACTTGTATACATAAATAAATCAACCACTTCGACCCAAGG

FIGURE 1 (CONT'D)

AATTTGAAGATGTTTCATGAGCTGAAGAAATTAAACCTCAGCAGCAATGGCATTGAATTCA
TCGATCCTGCCGCTTTTTTAGGGCTCACACATTTAGAAGAATTAGATTTATCAAACAACA
GTCTGCAAACTTTGACTATGGCGTATTAGAAGACTTGTATTTTTTGAAGCTTTGTGGC
TCAGAGATAACCTTGGAGATGTGACTACAACATTCACTACCTCTACTACTGGTTAAAGC
ACCACTACAATGTCCATTTTAAATGGCCTGGAATGCAAAACGCCTGAAGAATACAAAGGAT
GGTCTGTGGGAAAATATATTAGAAGTTACTATGAAGAATGCCCAAAGACAAGTTACCAG
CATATCCTGAGTCATTTGACCAAGACACAGAAGATGATGAATGGGAAAAAAACATAGAG
ATCACACCGCAAAGAAGCAAAGCGTAATAATTACTATAGTAGGATAAGGTAGAAATTGTT
CTGATTGTAATTAGTTTTGTATTTTCTATACTGGTGTTAGAAAACATATGTTTACATTTG
ATTAAGTGTGTTGCCTATTTATGCAGGGTAATCCAGCTAAAGGAAGCTTTCTTTAATTAT
AAGTATTATTGTGACTATTATAGTAATCAAGAGAATGCTATCATCCTGCTTGCCTGTCCA
TTTGTGGAACAGCATCTGGTGATATGCAATTCACACTGGTAACCTGCAGCAGTTGGGTC
CTAATGATGGCATTAGACTTTTATAATGTCCTGTATAAATGTTTTTACTGCTTTTAGAAA
ATAAAGAAAAAACTTGGTTTCATGTTTA

Gene 448. >ENST00000287126 cDNA sequence

GCCTGGCTCCCTCTCGCTGAGACACACATACACTCACACATACACAACCCGGCAGGCTCG
TCTGAACTTGAAGACACCCCACTTCCAAGATGCCCGAGGTTCTGGGAATGCCTGGGGT
TCTTCGATCCGGAATCCTACCGGCATCCTCCTAGGGAGGGATTATTATTATTATTTTT
CTTTAATCTGGAAGAGAAGAGAACAAGTTGTGCTTTTCCCCCTTCTTCTTGCTAAATGC
CATGGATATAACTGAATAAGCGGCTCAGGGCTTTCCCCGCGTGGACGTCCGAGGCCACCA
TCTGCCTGCATTGCGCGGAGCCGCGGAGGGTTTAGCTCGAGTCTGTCTCGGGCGGGGAA
GGATGCGTGGCCGAGCCGGGGAGCCCGGGCGCCCCGCGGAGCCGGCCTCGGTGCCACCCA
GCCGGGGGTAGATGCTGCCTCGCCAGGCGCTGAGTGACCAGACCATGGAGACCTGCTT
GGTGGCCTGCTAGCGTTTGGCATGGCGTTTGGCGTGGTTCGACGCTGCCCAAGTACTGT
GTCTGCCAGAATCTGTCTGAGTCACTGGGGACCTGTGCCCCCTCAAGGGGCTGCTCTTT
GTACCCCTGATATTGACCGGCGGACAGTGGAGCTGCGCCTGGGCGGCAACTTCATCATC
CACATCAGCCGCCAGGACTTTGCCAACATGACGGGGCTGGTGGACCTGACCCTGTCCAGG
AACACCATCAGCCACATCAGCCCTTTTCTTTCTGACCTCGAGAGCCTCCGCTCCCTG
CATCTTGACAGCAATCGGCTGCCAAGCCTTGGGGAGGACACCCTCCGGGGCCTGGTCAAC
CTGCAGCACCTTATCGTGAAACAACAACAGCTGGGCGGCATCGCAGATGAGGCTTTTGG
GACTTCCTGCTGACATTGGAGGATCTGGACCTCTCCTACAACAACCTCCATGGCCTGCCG
TGGGACTCCGTGCGACGCATGGTCAACCTCCACCAGCTGAGCCTGGACCACAACCTGCTG
GATCACATCGCCGAGGGCACCTTTGCAGACCTGCAGAACTGGCCCCGCTGGATCTCACC
TCCAATCGGCTGCAGAAGCTGCCCCCTGATCCCATCTTTGCCCCGCTCCAGGCTTCGGCT
TTGACAGCCACACCCTTTGCCCCACCCTTGTCTTTAGTTTTGGGGGTAACCCACTTCAC
TGCAATTGTGAGCTTCTCTGGCTGCGGAGGCTCGAGCGGGACGATGACCTGGAAACCTGT
GGCTCCCCAGGGGGCCTCAAGGGTCTGCTACTTCTGGCATGTGCGTGAGGAGGAGTTTGTG
TGCGAGCCGCCTCTCATACCCAGCACACACAAGTTGCTGGTTCTGGAGGGCCAGGCG
GCCACACTCAAGTGCAAAGCCATTGGGGACCCAGCCCCCTTATCCACTGGGTAGCCCCC
GATGACCGCCTGGTAGGGAACCTCCTCAAGGACCGCTGTCTATGACAATGGCACCTGGAC
ATCTTCATCACCACATCTCAGGACAGTGGTGCCTTACCTGCATTGCTGCCAATGCTGCC
GGAGAGGCCACGGCCATGGTGGAGGTCTCCATCGTCCAGCTGCCACACCTCAGCAAAGC
ACCAGCCGCACTGCACCCCCCAAGTCCCGCCTCTCAGACATCACTGGCTCCAGCAAAGACC
AGCCGGGGAGGTGGAGGAGTGGGGGCGGAGAGCCTCCCAAAGCCCCCGGAACGGGCT
GTGCTTGTGTCTGAAGTGACCACCACTCGGCCCTGGTCAAGTGGTCTGTGAGCAAGTCA
GCACCCCGGTGAAGATGTACAGCTGCAGTACAACCTGCTCTGACGATGAGGTACTGATT
TACAGGATGATCCAGCCTCCAACAAGGCCCTTCGTGGTCAACAACCTGGTGTGAGGACT
GGCTACGACTTGTGTGTGCTGGCCATGTGGGATGACACAGCCACGACACTCACGGCCACC
AACATCGTGGGCTGCGCCAGTTCTTACCAAGGCTGACTACCCGAGTGCCAGTCCATG
CACAGCCAGATTCTGGGCGGCACCATGATCCTGGTCATCGGGGGCATCATCGTGGCCACG
CTGCTGGTCTTCATCGTCATCCTCATGGTGCCTACAAGGTCTGCAACCACGAGGCCCCC
AGCAAGATGGCAGCGGCCGTGAGCAATGTGTACTCGCAGACCAACGGCGCCAGCCACCG
CCTCCAAGCAGCGCACCAGCCGGGGCCCCCGCCGAGGGCCCGCGAAGGTGGTGGTGC
AACGAGCTCCTGGACTTCACCGCCAGCCTGGCCCCGCGCCAGTGACTCCTCTTCTCCAGC

FIGURE 1 (CONT'D)

TCCCTGGGCAGTGGGGAGGCTGCGGGCTGGGACGGGCCCCCTGGAGGATCCCACCCTCC
GCCCCGCGCCCCAAGCCCAGCCTTGACCGCCTGATGGGGGCTTCGCCTCCCTGGACCTC
AAGAGTCAGAGAAAGGAGGAGCTGCTGGACTCCAGGACTCCAGCCGGGAGAGGGGCTGGG
ACGT CGGCCCCGGGGCCACCACTCGGACCGAGAGCCACTGCTGGGGCCCCCTGCGGCCGG
GCCAGGAGCCTGCTCCCCTTGCCGTTGGAGGGCAAGGCCAAACGCAGCCACTCCTTCGAC
ATGGGGGACTTTGCTGCTGCGGCGGCGGGAGGGGTCTGCGGGCGGCTACAGTCCTCCT
CGGAAGGTCTCGAACATCTGGACGAAGCGCAGCCTCTCTGTCAACGGCATGCTCTTGCCC
TTTGAGGAGAGTGACCTGGTGGGGGCCCGGGGACTTTTGGCAGCTCCGAATGGGTGATG
GAGAGCACGGTCTAGGTGGGGGTGGGCATGCTCCCTTTCCTGTGCGCAGGGTGGGAGAAG
GGGAAAGAATCTCACTGGCAAGTGTGTTGTGGAGTTTCCATGGTGATGTTTACATCCAGGG
ACAGTTTTCGTCTCCCTGTCAATGGCCTCGTGTCCCCCCTACCCCGCAACACCCACATCA
CCTCCCCACCAACCGGCCGGGGTGTGCTCAGGGAATGTGGACTCGCTCAAATGCCGGA
GAGCCCTGAGTGTTTGGAAAGGCGAGACTCCGCCTTTCTAATCAAAATGTAGCCTACAA
GCAAGCGGCTTTGGATTGCTTATG

Gene 449. >ENST00000313221 cDNA sequence

GAATGCGAGAAAGTGAAGTCAAATTCGGACTTGTAGGCGATCAGGGCTGAAGACGCTGAT
TAGAGAGAAAAACAGAGGGTGATGGTGGCTGCACGTGGGGAATGGGTGACATCTCCCAGGG
GGAATGAGCACAAGGCCAGATCGGAAACCCCAAACCTCAGATTTTAAGGTTTGGACAAGA
AGTACCTGAGGAGTGGAGGAGTGAGAAAGAAGTGCCAGAGAGCCTGAGGAGGAAAATCAG
CAGACTGGCATTATGAAGAATGTTGTGAGAAGTAGGGAGTAGGCACTAGTCACCTAAGAT
AAGGAGCTGGATTCTGCCAAGGGCACTGTTATGTGGTATACTTGTTACATGTCCTGAGG
ATCCGCTGAGGTATTTAGAGGGAATGATCATGGTTATAATCAAAAGTGGTCTTCAGAATC
TTCTTTGATGACTCCGGAATTGATGATAAAAGCCTGTAGCTTTTATACTGGACATTTAGT
AAAGACTCATTTTTTGCACTTGGAGAGACATAGCTCGTACAAATGAAAATGTGTCCTGGC
TGAAAAAATGAACAGAGCAGTGACATGCTACAATTTAGACTTCAAAAATCTGTATTTCA
TCACTGGCACTCTTATATGGAAGACAGAAAGAAAACTTAAAAATATTCTATTGCGGAT
ACAACAGATCATCTATTGTCAAGCTAACCATTATCCTAACAAAATGGCGGAATACAGC
AAGACATAAGAGTAAAAAGAAAGAAGATGAGCTGATATTAACATGAACTTCAATTGAA
AAAATGGAAAAATAGGTTAATACTCAAAAGAGCTGCTGCAGAAGAATCCAATTTTCCTGA
ACGAAGTTCTTCTGAAGTCTTTCTTGTAGATGAGACTCTAAAATGTGACATTTCACTGTT
ACCTGAAAGAGCAATATTACAGATTTTCTTCTACCTCAGTTTAAAAGATGTGATAATATG
TGGTCAAGTTAATCATGCCTGGATGTTGATGACACAACCTAAACTCACTGTGGAATGCTAT
TGATTTTTCTCAGTGAAAAATGTGATTCCAGATAAATATATAGTGTCTACTTTGCAAAG
GTGGCGTTTTAAATGTGCTGCGTTTTGAATTTTCTGTTGTCTTCTCCGACCCAAAACCTT
CAGATCTGTGAGCCACTGTAGGAACCTTGCAAGAGTTGAATGTCTCTGACTGCCCAACATT
CACAGATGAATCAATGAGACACATTTCTGAGGGCTGCCCCGGGGTCTGTGTCTCAATCT
GTCTAACACAACCTATCAACCAACAGGACGATGCGACTCCTGCCGAGGCACTTCCACAACCT
ACAGAATCTTAGTTTGGCTTATTGACAGCGTTTACAGACAAAGGCTTACAGTACCTGAA
CTTGGGGAATGGATGCCACAAGCTCATCTATCTGGACCTCTCTGGCTGCACCCAGATTT
AGTCCAAGGCTTCAGGTACATTGCAACAGCTGCACTGGAATTATGCATCTTACCATTAA
TGACATGCCAACTCTGACGGACAACTGTGTAAGAGTAGGTATTGAAAAATGCTCTCGTAT
TACATCGCTGGTTTTCTGCTGGTGACCGCATATCTCCGATTGTACTTTAGAGCTCTTTC
TGCTTGTAAACTCAGAAAGATCCGATTTGAAGGAAATAAAAGGGTTACTGATGCATCCTT
CAAATTTATAGACAAGAATTATCCAAATCTCAGTCACATTTATATGGCTGACTGCAAGGG
AATAACAGACAGCAGCCTCAGATCCCTTTACCTTTGAAGCAACTGACTGTGTTGAATTT
GGCAAATTGTGTAAGAATTGGTGATATGGGACTAAAGCAATTTCTTGATGGTCTGCAAG
CATGAGGATAAGAGAGCTAAATTTAAGCAACTGTGTGCGGCTAAGTGATGCCTCTGTTAT
GAACTATCTGAGCGCTGCCCTAATTTAAACTACTTGAGTTTACGAAATTGTGAACATTT
GACTGCCCAAGGAATTGGATATATTGTAAACATCTTTTCTTGGTATCAATAGATCTCTC
TGGAACAGACATCTCTAATGAGGGTTTGAATGTGCTTTCCAGACATAAAAAATGAAGGA
ACTTTCTGTATCTGAATGTTATAGAATCACTGATGATGGAATTGAGGCATTCTGCAAAAG
CTCACTGATCTTGGAACATTTGGATGTCTTATTGCTCCAGCTGTGAGATATGATTAT
CAAAGCACTGGCCATTTACTGCATTAACCTCACATCTCTCAGCATTGCTGGCTGTCCAAA
GATTACTGACTCAGCAATGGAGATGTTATCGGCAAAATGCCATTACCTGCACATTTTGA

FIGURE 1 (CONT'D)

TATCTCTGGTTGTGTCTTGCTTACTGACCAAATCCTTGAGGACCTTCAGATAGGCTGCAA
 ACAACTCCGGATCCTTAAGATGCAATACTGCACAAATATTTCCAAGAAGGCAGCTCAAAG
 AATGTCATCTAAAGTTCAGCAGCAGGAATACAACACTAATGACCCTCCACGTTGGTTTGG
 CTATGATAGGGAAGGAAACCCCTGTTACAGAGCTTGACAACATAACATCATCTAAAGGAGC
 CTTAGAATTAAACAGTGAAAAAGTCAACATACAGCAGTGAAGACCAAGCAGCGTGACCTTC
 AGCCTCAAGCAGGAAGAACAATAAATCAAGAACTTGGCAAGTTTTCTCCATTTGTTGCAA
 GTATGTTTACTAGCTGAATCTCAATAACAATGTAAACAAGCAAC

Gene 450. >ENST00000313196 cDNA sequence

GCCCCGCCCCCTAGTCCCAGCGCGGGGAGGGTACTATCGCAGCTTCTCCGTGAGGCTTGG
 GCCATGGCCTCGCTACGCAATGCCAACCCGAGGCTGAAGAACTACTTCAAGGAGAACTAC
 ATTCTCAGGTCTGCGAGGCACTGTTATGTGGTATACTTGTTACATGTCTGAGGATCCG
 CTGAGGTATTTAGAGGGAATGATCATGGTTATAATCAAAAGTGGTCTTCAGAATCTTCTT
 TGATGACTCCGGAATTGATGATAAAAGCCTGTAGCTTTTATACTGGACATTTAGTAAAGA
 CTCATTTTTGCACCTTGAGAGACATAGCTCGTACAAATGAAAATGTCTGCTGGCTGAAA
 AAATGAACAGAGCAGTGACATGCTACAATTTGAGACTTCAAAAATCTGTATTTTCACTACT
 GGCCTCTTATATGGAAGACCAGAAAGAAAAAATTAAAAATATTCTATTGCGGATACAAC
 AGATCATCTATTGTCAAGCTAACCATTTATCCTAACAAAATGGCGGAATACAGCAAGAC
 ATAAGAGTAAAAAGAAAGAAGATGAGCTGATATTAATAACATGAACTTCAATTGAAAAAAT
 GGAAAAATAGGTTAATACTCAAAAGAGCTGCTGCAGAAGAATCCAATTTTCTGAACGAA
 GTTCTTCTGAAGTCTTTCTTGATAGATGAGACTCTAAAATGTGACATTTCACTGTTACCTG
 AAAGAGCAATATTACAGATTTTCTTCTACCTCAGTTTAAAAGATGTGATAATATGTGGTC
 AAGTTAATCATGCCTGGATGTTGATGACACAATAAATCACTGTGGAATGCTATTGATT
 TTTCTCAGTGAAAAATGTGATTCCAGATAAATATATAGTGTCTACTTTGCAAAGGTGGC
 GTTTAAATGTGCTGCGTTTGAATTTTCTGTGGTGTCTTCTCCGACCCAAAACCTTCAGAT
 CTGTCAACAGCAGCCTCAGATCCCTTTACCTTTGAAGCAACTGACTGTGTTGAATTTGG
 CAAATTGTGTAAGAATTGGTGATATGGGACTAAAGCAATTTCTTGATGGTCTGCAAGCA
 TGAGGATAAGAGAGCTAAATTTAAGCAACTGTGTGCGGCTAAGTGATGCCTCTGTTATGA
 AACTATCTGAGCGCTGCCCTAATTTAAACTACTTGAGTTTACGAAATTGTGAACATTTGA
 CTGCCCAAGGAATTGGATATATTGTAAACATCTTTTCTTGATCAATAGATCTCTCTG
 GAAAGACATCTCTAATGAGGGTTTGAATGTGCTTTCCAGACATAAAAAATTGAAGGAAC
 TTTCTGTATCTGAATGTTATAGAATCACTGATGATGGAATTCAGGCATTCTGCAAAAGCT
 CACTGATCTTGGAACATTTGGATGTCTCTTATTGCTCCAGCTGTGAGATATGATTATCA
 AAGCACTGGCCATTTACTGCATTAACTCAGATCTCTCAGCATTGCTGGCTGTCCAAAGA
 TTAAGCACTGAGCAATGGAGATGTTATCGGCAAAATGCCATTACCTGCACATTTTGGATA
 TCTCTGGTTGTGTCTTGCTTACTGACCAAATCCTTGAGGACCTTCAGATAGGCTGCAAAC
 AACTCCGGATCCTTAAGATGCAATACTGCACAAATATTTCCAAGAAGGCAGCTCAAAGAA
 TGTATCTAAAGTTCAGCAGCAGGAATACAACACTAATGACCCTCCACGTTGGTTTGGCT
 ATGATAGGGAAGGAAACCCCTGTTACAGAGCTTGACAACATAACATCATCTAAAGGAGCCT
 TAGAATTAAACAGTGAAAAAGTCAACATACAGCAGTGAAGACCAAGCAGCGTGACCTTCAG
 CCTCAAGCAGGAAGAAACAATAAATCAAGAACTTGGCAAGTTTTCTCCATTTGTTGCAAGT
 ATGTTTACTAGCTGAATCTCAATAACAATGTAAACAAGC

Gene 451. >ENST00000323915 cDNA sequence

TCAGCCCCTGGGGTAGATCCCAGCCCCCGCATAGGTCTTTTGTCTGGAAAAGGAAGATG
 GAGTGGTGGGACAAATCTGAGGAGTCTGTTGGAGGAGGAGCCACGGAAGGTGCTCGCCCCCT
 GAGCCTGAGGAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGA
 CGGCGAGTGTGCTCGTGCTCCCTGAGCACCACGAGGCCTTCAACAGGCTGCTTGAGGAT
 CCTGTCAATTAAGATTCTGGCCTGGGACAAAGGTCTGAGGGTGTGCGACAAGTATCTC
 CTGGCTATGGTCATAGTGTATCAGCCGGGCCGGCCTCCCTCCTGGCAATACCAATGCAT
 TCATTTCTTCTGGCTCTGTG

Gene 452. >ENST00000275580 cDNA sequence

CGCTTCCTGCGCCTCTTCAGGTACCGCTTGCTCTAGTTCCAGGCTTTGGCCTCTAGTG
 GATGAGAATCACCGAGTCTGCGGGGCTGGACGCTGACCGCCCGGGCCAGCACCTAGGCGG
 GCGGGAGCTGTGCGGCCAGGGTTGCGCGGGGCCGGGTAGAGGCTCGAGCCGGGACCCCC
 GAGCGTGAACCCCGGAGCCAGCGGCGCTGGGGCCAGAGGGGCCAGGCGGGAGGTGGTGGC

FIGURE 1 (CONT'D)

GGAGGCGAAGGGGCGACGGGACCTGGGCCTGGCCCGTGTGTGTCCTCGGCGGCCTGGCGC
CGGCCGTGCTGTACGGTGAGCCCCAGGGAGGCGGATCTGGGCCCCGAGAAGGACACCCG
CCTGGATTTGCCCCGTCCGGCCCCGGGCCCTCGGGAGCAGAACAGCCTTGGTGAGGTGGA
CGGGAGGGGACTTCGCGAGCAGACGCGCGGCCAGCGACAGCACCGCCCCGGCCTCTCGG
GAGCCGTGGGGCAGAGGCTGCAGAGCCCCAGGAGGGTCTATCAGCCACAGTCTCTGCAAG
TTTCCAAGAGCAGCAGAAAAATGAACACATTGCAGGGGCCAGTGTCAATCAAAGATGTGGC
TGTGGATTTTCAACCAGGAGGAGTGGTGGCAACTGGACCCTGATGAGAAGATAACATACGG
GGATGTGATGTTGGAGAACTACAGCCATCTAGTTTCCCTGGTCCTTCTTCTTTTCCATT
AACAAGATATGATATCACCAAGCCAAACGTCATCATTAAGTTGGAGCAGGGAGAGGAGCT
GTGGATAACGGGAGGTGAATTTCCATGTCAACATAGTCCAGAACCTGCTAAGGCCATCAA
ACCTATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAG
CACTGCGGTGAAGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCACTAATATTGATCT
AAAGCTTAAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGA
AGAAGAAAACCTTCGAAGGCTTAATCTCTTTTCAGCTCTGAAACATCACACATCTAA

Gene 453. >ENST00000323689 cDNA sequence

TGCATCCTTGGAGAGAGCTGAGAGCTCGAGGTACAGAACCTGCTAAGGCCATCAAACCTA
TTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACTG
CGGTGAAGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCACTAATATTGGATCTAAAG
CTTAAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAA
GAAAACCTTCGAAGGCTTAAGTAAGGTCACCATTTCTACCTGCCACGTATCGGCGAAGGTT
GGGACTCAACTGGTGTTTTTGATCACGATGGGAAAATCATCCAGAAAACCCCCTACCCCC
ACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTACCTGTGCGCCATA
AGGAATTTCAAAGGAATATTAAGAAGTACAGAACCTGCTAAGGCCATCAAACCTATTGAT
CGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACTGCGGTG
AAGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAGCTTAAG
GACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAAGAAAAC
TTCGAAGGCTTAACCTCTGAAACATCACACATCTAAGATTCAAGAGTTTGCCGACCTAACT
CGGGTTGAAACTTTTGGCTTTTCGGGGGAAAGCTCTGAGCTCACTTTGTGCACTGAGTGAT
GTCACCATTTTCTACCTGCCACGTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATCAC
GATGGGAAAATCATCCAGAAAACCCCCTACCCCCACCCAGAGGGACACAGTCAGCGTG
AAGCAGTTATTTTCTACGCTACCTGTGCGCATAAGGAATTTCAAAGGAATATTAAGAAG
AAACGTGCCTGCTTCCCTTTCGCTTCTGCGTGAATTGTGAGTTTCTTGAGGGCTCCCCA
GCCATGCTTCCCTGTACAGCCTGCAAACTGACTCCTAGAAGTACCCACCCACCCCTGC
TCCTTGGAGGACAACGTGATCACTGTATTTCAGCTCTGTCAAGAATGGTCCAGGTTCTTCT
AGATGA

Gene 454. >ENST00000306533 cDNA sequence

GAGAGCTGAGAGCTCGAGGTGAGCTGGGCTCGCGGTGCCCCCTCTCGCTCGCCCTCTTTG
AGAACCACGGCTTCCGACCTCCCTGGAAATGGGGGGAACATGGCCGAGGCGCGTGGGAGG
CCGCCTCGTGGAGGCCCCGGAGCGGCATCCTCAGCGCCCCAGCGATCCGGTGCCATTAG
AACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGC
CGGTGGTACTGAGTCTAAGCACTGCGGTGAAGAAGATAGTAGGAAACAGTCTGGATGCTG
GTGCCACTAATATTGATCTAAAGCTTAAGGACTATGGAATGGATCTCATTGAAGTTTCAG
GCAATGGATGTGGGGTAGAAGAAGAAAACCTTCGAAGGCTTAATCTCTTTTCAGCTCTGAAA
CATCACACATCTAAGATTCAAGAGTTTGCCGACCTAACTCGGGTTGAAAACCTTTTGGCTTT
CGGGGGAAAGCTCTGAGCTCACTTTGTGCACTGAGTGATGTCACCATTTTCTACCTGCCAC
GTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGAAA
ACCCCTACCCACCCACAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTA
CCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGGTAC

Gene 455. >ENST00000335315 cDNA sequence

ATGCCCGGCAGACCCCTACCGACGGCGGCATTCCATTCTGGGGCCACGAGGAGGCACTCA
TCGTTTTCGTTTCAACCGCCGCCAACGGCCCTGGCCCTCGCGAGCTCTGGAACTACAGAGG
TCGCACGGTGAGTTGCCAGGTGTGGCCCGTAATCGGAGCGCACAAAACATGATGGGACAC
GTAACGGGACCACACAGGGCACATTGGGCACCTGCAGGGGCGCGAGGTGGCGGCACGTAA

Gene 456. >ENST00000257622 cDNA sequence

FIGURE 1 (CONT'D)

GGAGATCTGAAGCCGAGCAACTTTGCCCAAAGTCTTCTCTCTTTCCCAATTAAACAAGATATG
ATATACCAAGCCAAACGTCATCATTTAAGTTGGAGCAGGGAGAGGAGCTGTGGATAACGG
GAGGTGAATTTTCATGTCAACATAGTCCAGGGATTGTGGGACTTTACCAAATCGGTTTGT
AATAACACCTAGAAGACGCTATCCGATCCATCAGGCCAGTATTCTGTCTGGGGGTACT
TCCCACCGTGTGCTGGAATGGTTATCA CAAGAAAGGCTGTGCTGTCCCCCTCGCAACTCCAG
GATGGTGTGTAGCCCAGTGA CTGTGAGGATCGCCCCCTCTGACAGAAGATTTTCGCGTTC
TGCGATACCAGAGCAGATAATCAGCTCAACACTGTCTCTACCATCAAGTAACGCCCCAGA
CCCATGTGCAAAGGAGACAGTACTGAGTGCCCTCAAAGAGAAAGGAGAAGAAAAGGACAGT
GGAGGAAGAAGACCAAATATTCTTGATGGCCAGGAAAAATAAAAGAAAGGCGCCATGATAG
CAGTGGCAGTGGACATTTCAGCATTGTAGCCCCCTGGTGGCCAATGGAGTCCCCGCTTCTTT
TGTGCCTAAGCCTGGGTCTCTGAAGAGAGGCCTCAATTCTCAGAGCTCAGATGACCACTT
GAATAAGAGATCCCGAAGCTCTTCCATGAGCTCCTTGACAGGCGCTTACGCAAGTGGCAT
CCCTAGCTCCAGCCGCAATGCCATTACCAGTTCTCTACAGCTCCA CTGAGGCATCTCACA
GCTCTGGAAGAGAAATGGCCCCAGTT CATCACCTTCTCTAGCCCAGCTCCTCCCCGCTC
CCAGACACCGGAGAGGCCAGCAAAGAAAATAAGAGAAGAGGAGCTGTGT CATCATTCAG
TTCTTCAACTCCATTGGCAGCAGACAGGGAGTCCAGGGAGAAAAGGCTGCAGATACAAC
CCCAAGGAAGAAACAAAAC TCGAATTCTCAGTCTACACCTGGCAGCTCTGGGCAGCGTAA
GCGGAAAGTT CAGCTGTGCTCTCTCGGCGAGGGGAACAGCTGACCTTGCTCCACCTCC
CCAGCTTGGCTATTTCGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCATTACA
GTGGTTCAACCAGGCCTTGGAGGACAAGAGCGATGCTGCTCGAACTCTGTCACTGAGAC
CCCACCTATCACTCAGCCTTCATTTACCTTTACCCTGCTGCTGCTGCACCTGCCCTCCCC
ACCCACCTCCCTCTGGCCCCAAGCACCAACCCACTGTTAGAGAGCTTGAAGAAGATGCA
GACTCCCCCGAGCCTGCCACCTTGCCCAAGATCTGCTGGAGCAGCAACCACTGAGGCCCT
CTCACCTCCAAAGACACCCAGCCTCCTACCCCCGCTGGGTTTATCACAGTCAGGGCCGCC
AGGGCTGCTCCCCAGCCCCCTCCTTTGACTCCAAACCCCCGACCACTTGTCTGGGGCTGAT
CCCTGCTCCATCCATGGTACAGCCACTGACACCAAGGCACCTCCAACCTTTCAGGCAGA
GACGGCTACCAAACCCCAAGCCACATCTGCCCCGTCCCCCGCCCCAAGCAAAGCTTCCT
GTTTGGAACACAGAACACCTCACCTTCCAGCCCCGCGCCCCCTGCTGCATCTTTCAGCAC
TCCCATGTTCAAGCCCATTTTTCAGGCTCCACCCAAGAGTGAGAAGGAAGGCCCCACAC
GCCTGGCCCTTTCAGTCACAGCCAAGCGCCCTCCAGCTCCTCCTCCCCACGACCACCAG
CACCACAGCCCCGACCTTCCAGCCTGTCTTTAGCAGCATGGGGCCACCTGCATCTGTGCC
CTTGCTGCTGCTCCCTTCTTCAAGCAGACAACTACTCCCGCCACTGCTCCCACCACAAC TGC
CCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTGGCTCCCATCACCTCTGCCAG
TCCATCCAAGACTCTGCTTGAAGCCTGCGTTTGGCTTTGGCATAAAACAGTGTGAGCAG
CAGCAGTGTGAGTACCACGACAGCACCGCCACTGCCGCTCAAGCCTTTCTCTTCGG
GGCGCCCCAGGCCTCTGCTGCCAGCTTCACCCCGGCCATGGGCTCCATATTCCAGTTTG
CAAACCTCCTGCCTTGCCCAAAACCACCAAGTCAACACCTTTCAGCCAGTCCCTGCA
TGCCGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTTAGTGGTTTGGCAGCACCT
CGCCACCTCCGCCCCGGCCACCAGCAGCCAGCCCACTCTGACGTTCAAGTAACAGGAC
CCCCACGTTCAACATTCCCTTTGGCTCAAGCGCCAAGTCCCCGCTCCCATCATATCCGG
AGCCAAACCCAGCCCGCATTTGGGGCCGCTGAGGGGCAGCCACCGGGGGCCGCCAAGCC
GGCCCTTGCCCCAGCTTTGGCAGCTCTTTCACTTTTGGAACTCTGCAGCCCCGGCTGC
TGCACCCACACCTGCACCTCCGTCCATGATCAAGGTCGTGCTGCTGCTACGTGCTTACGCC
CATCCATCCTATCTTTGGCGGTGCCACGCACTCGGCGTTTGGGTGAAAGCCACGGCTTC
GCCTTCCGGCGCTCCCGCAGCTCACAGCCCGCCTTTGGCGGCTCCA CTGCTGCTCTTCTT
CGGTGCAGCCACAGCACTCGGCTTTGGAGCCACACCCAGACCGCCAGCAGCGGGAGCAG
CAGCTCGGTGTTTTGGCAGCA CAACCATCACCTTCACTTTGGGGGTTTCGGCAGCCCC
CGCTGGCAGTGGGAGCTTTGGGATCAATGTGGCCACCCAGGCTCCAGCACCACCAACGG
AGCTTTCAGCTTTGGAGCAGGACAGAGTGGGACAGGACCACTCCACCCCTTTCGAGG
GGGCTTAGGTGAGAAGCCCTGGGCACCACCGGCCAGGACCACTTTCCTTCAAGCT
GAGCAGCACAACTGAGAGCAAACCTGTGTTTTGGAGGACCGCCACCCCACTTGTGCT
GAACACCCCTGCGCTGGAGTGGGCACATCAGGCAGCAGCTCTCTTTGGGGCATCTCTC
AGCACCCGCCCAAGGCTTTGTTGGTGTGTGACCTTTCGGATCGGCGGCCCTTTCATTTTC
CATTTGGTGGGGATCCAAGACCCAGGGGCTCGACAGCGACTGCGAGGCCGGAAGGCAGCT

FIGURE 1 (CONT'D)

CACCCGCAAAAAGTAGCCTTTGTCCCCTGTCCCTGTTCCCCCACCCCTTCCCTAAATCT
 GGACCTTGGCACCTGCTAGGAAGAGCCTTGGACCCTTCCAGTTGCGTAAAGCAAACCTAC
 CCCGGATCTCTGGCTTCAGCCGCCAGGGGGCAGTGGCAGCCCTGGGGCCCTTTCCCTTCT
 GGAGGAAGCACAAGCCTCAGGGAAGGGGAAGCAGGATGCGGAGGGCCAAAGCCCGGGACC
 TCTACTTGAACAGTTCTACTGGGGAGGCTGGAGAACTAAGGAAACACCTGTACATAGTGT
 CCGCTGCCCTGACTCCCGCTTAGCACACCCCTTAGGCAGGCGCCCTTCCACCTTTCCCCG
 AGACCGTCGTCGCTGGAGGGGGCAGGGTCCAGCCCGCTGGATCGGTGGTGTGCACCTGA
 TGGGATTTGGGAAATGGGCTATCCGTAAAGCTTTATCTTGCTTGGCTTAGCTGTGAGAAG
 TGGTTCTCTTCTCTGGTCCCTTCTGGGACTCTGTTTCCCATTTCTTGCTGCTGTGTC
 CCTCACCAGTTCCTTGCAGGATTCCTTCGTTTTTAAATGCCCTTGAATCTAGCTTTGCCT
 TGGAGACCCAGTGGGTGCTGCTCCTGCCGTTTTCTTCTGCGCAAGCCTGAATCAATGTT
 TCATCTCCAACCCCTCTGCCAGTTTGGCCCCCTCAGAGCTTGGTGGCTCAAGACTGTTAGCC
 TGGCAGAGCCAGGGGTGAAGGGAGAAGCTCTTGGAGCAGGCAGGATGCCACCGCTGCTT
 CAGCTGCCTCCTCGCCAGCTACCCCTTTGGCCCCATTGGGCCCTCGTCTGCCTCTCCAGG
 ATTGTATGTTTTCAAGCCTTGTCTGTGTTCCCTTTGTCTGACGCTCTGTGTATTGCTCTTT
 GAATCGAGTTTGGAGGAAGAGTTGAGTTGTATGAGTGGCGGCATGTTGGTAGTGCCGGAC
 TTCCTGTTTTCAAGTTTTCTGGGGCCTCGCTAATTGAATGTGGAAAGTAGCACCATTGAC
 GGCTACAAGTGCCGACTCCTGAATTTTCCCATGGTGTCTGACTTCAAGGGCTGGCAGCC
 AGGGAGAATGGGCCCAGGGGAAGCAAAGACCTCTTCCCTCTGCCGTTTTCTGTCCCACTTA
 ACTGACCTCACTGGAGGCTACATCACCCAAAGTAGATGTTAGAAAACCTAAATTAATGAA
 CCATATTTTTTAAATCCTATTTTTTCCCAAACAGGGCCCTCTGCAGCCCATCCTTTCCTTC
 CGTCCTTCTGAAACCACATACCCAGGCCCAAGCGCCTTGCTGCCACGCCAACCTCTTT
 GGGAGAAGTATGAATGCGTGTGTCTAAATT

Gene 457. >ENST00000285805 cDNA sequence

GAGCATGATGGGGCATGTGCGGGAGCGCCAGGCGGGGCATGTAACCAGAGCGTGCGGGGC
 ATGATGGGGCACGGACATGGGGGGTTAGGTGGGGCACGTAATTGGAGCTCGCGGGGCAGG
 ATGGGGCATCTAACTGGAGCGACAGAGAGCACGATGGGGCACTTACAGGGGCGGAGGCT
 GGCCCGGGCAGTGAGTGTGGATGGCTTGGCAGGTGAGCCTGCTGGAGCTGGAGGACTGGC
 TTCAGTGTCCCATCTGCCTGGAGGTCTTCAAGGAGTCCCTAATGCTACAGTGCGGCCACT
 CCTACTGCAAGGGCTGCCTGGTTTTCCCTGTCTACACCTGGACACCAAGGTGCGCTGCC
 CCATGTGCTGGCAGGTGGTGGACGGCAGCAGCTCCTTGCCCAACGTCTCCCTGGCCTGGG
 TGATCGAAGCCCTGAGGCTCCCTGGGGACCCGGAGCCCAAGGTCTGCGTGCAACCCGGA
 ACCCGCTCAGCCTTTTTCTGCGAGAAGGACCAGGAGCTCATCTGTGGCCTCTGCGGTCTGC
 TGGGCTCCCAACACACCCCGGTACGCCCCGTCTCCACCGTCTGCAGCCGCATGAAGG
 AGGAGCTCGCAGCCCTCTTCTCTGAGCTGAAGCAGGAGCAGAAGAAGGTGGATGAGCTCA
 TCGCCAAACTGGTGAAAAACCGGACCCGAATCGTCAATGAGTCGGATGTCTTCAGCTGGG
 TGATCCGCCGCGAGTTCCAGGAGCTGCGCCACCCGGTGGACGAGGAGAAGGCCCGCTGCC
 TGGAGGGGATAGGGGGTCAACCCCGTGGCCTGGTGGCCTCCCTGGACATGCAGCTGGAGC
 AGGCCCAGGGAAACCCGGGAGCGGCTGGCCCAAGCCGAGTGTGTGCTGGAACAGTTCCGAA
 ATGAGGACCACCATGAGTTTCATCTGGAAGTTCCACTCCATGGCCTCCAGGTAATAACCTT
 GGAGAGAGCTCAGCCAGGGTCTGGTGGCTGCGGGCAGGGCATCTCAGCTCCACTGGTTTC
 CTCCATTAGCTTAAACAGCGCCTCCCAAGCAGCTGCCTATAGCTGGCTCTATAACTGAG
 CCTGGGGAAGATAGAGGAAAGTCACGTCCCTGCCTTCAAGGGTCTCGCAGACAGGTGGGG
 AGGCAGATGGTGAAGTGTGGGTACCTAGAACAGCAGAAGTTCACTCAAGCTACAGAAATA
 CTAGAGGAGGGTAGCTCATGCCTGCAATCCAGTACTTTGGGAGGCCAAGGCAGGAGTAT
 TGCTGGAGGCCGGGAGTTGAGACAGCCTGGCCAATGTAGTAACACCCCCGTCTCTACA
 AAAAATACAAAATAAAAAAATTAGTTGGG

Gene 458. >ENST0000022857 cDNA sequence

GCGCTTTGCGACAGAGCCGTAAAGGCGCGCGGGAACATGGGGCTGTACGCTGCGGTGGCA
 GCGGTGCTGGCCGGCGTGGAGAGCCGCCAGGGCTCTATCAAGGGGCTGGTGTACTCCAGC
 AACTTCCAGAACGTGAAGCAGCTGTACGCGCTGGTGTGCGAAACGCAGCGCTACTCCGCC
 GTGCTGGATGCCGTGATCTCCAGCGCCGGCCTCCTCAGTGCGAAGAAGCTGCAGCCGCAC
 CTGGCCAAGGTGCTAGTGTATGAGTTGTTGGGAAAGGGCTTTGAGGGGGTGGGGGCCAA
 TGGAAGGCTCTGTTGGGACGGCACAGGCGAGGTGTTGAGTTGGCTCGGCTCAAGGTTCT

FIGURE 1 (CONT'D)

TCGGGGTGTGAGCTGGCATGAGGACCTGTTGGAAGTGGGATCCAGGCCTGGTCCAGCCTC
 CCAGCTGCCTCGATTTGTGCGTGTGAACACTCTCAAGACCTGCTCCGTTTATGTAGTTAT
 TTCAAGAGACAAGGTTTCTCCTATCAGGGTCGGGCTTCCAGCCTCGATGACTTACGAGCC
 CTCAAGGGGAAGCATTTTCTCCTGGACCCCTTGATGCCGGAGCTGCTGGTGTTCCTGCC
 CAGACAGATCTGCATGAACACCCACTGTACCGGGCCGGACACCTCATTCTGCAGGACAGG
 GCCAGCTGTCTCCAGCCATGCTGCTGGACCCCGCCAGGCTCCCATGTATGGATGCCT
 GTGCCACCCAGGCAATAAAGACCAGTCACTTGGCTGCTCTTCTGAAGAACAAGGGAAG
 ATCTTTGCCTTTGACCTGGATGCCAGGCGGCTGGCATCCATGGCCACGCTGCTGGCCTGG
 GCTGGCGTCTCCTGCTGTGAGCTGGCTGAGGAGGACTTCTGGCGGTCTCCCCCTTAGAT
 CCGCGCTATCGTGAGGTCCACTATGTCTGCTGGATCCTTCTGCAAGTGGCTCGGGTATG
 CCGAGCAGACAGCTGGAGGAGCCCGGGGCGAGGACACCTAGCCCGGTGCGTCTGCATGCC
 CTGGCAGGGTTCCAGCAGCGAGCCCTGTGCCACGCGCTCACTTTCCTTCCCTGCAGCGG
 CTCGTCTACTCCATGTGCTCCCTCTGCCAGGAGGAGAATGAAGACATGGTACAAGATGCG
 CTGCAGCAGAACCCGGGCGCCTTCAGGCTAGCTCCCGCCCTGCCTGCCCGGCCCCACCGA
 GGCCTGAGCACGTTCCCGGGTGCCGAGCACTGCCTCCGGGCTTCCCCAAGACCACGCTT
 AGCGGTGGCTTCTTCGTTGTGTGAATTGAACGGGTGAGATGCCGACCTCAGCCTCACAG
 GCCAAGCATCAGCACCAGAACGCACACCCAGCCAGCCCAAAGAGAAAGAAGAGAGCA
 AAAAGCTGCAGCCGGTGTCTTGACACCGCCTTGACATAGCAGAGGCTCCGGGCTCACTC
 CTTCTGGTGGGAAAGGAAGATGCCTGTCTCTCCGTGGAAGACCCTGGGCCCTCACCGC
 AGGCAGCAGTTTGCCTTTTGAAGGTTATTGGGTCCCTTCTCGGGCTGTGTTCTTGCTG
 GTGAGCAAAAGTGTTCCTGCAGAAATAAAATGCAGAACGTACTCT

Gene 459. >ENST00000330999 cDNA sequence

GCGCTTTGCGACAGAGCCGTAAAGGCGCGCGGGAACATGGGGCTGTACGCTGCGGTGGCA
 GCGTGTGCTGGCCGGCGTGGAGAGCCGCCAGGGCTCTATCAAGGGGCTGGTGTACTCCAGC
 AACTTCCAGAACGTGAAGCAGCTGTACGCGCTGGTGTGCGAAACGCAGCGCTACTCCGCC
 GTGCTGGATGCCGTGATCTCCAGCGCCGGCCTCCTCAGTGCAGAAAGCTGCAGCCGCAC
 CTGGCCAAGGTGCTAGTGTATGAGTTGTTGGGAAAGGGCTTTCGAGGGGGTGGGGGCCAA
 TGGAAGGCTCTGTTGGGACGGCACCAGGCGAGGTGTTGAGTTGGCTCGGCTCAAGGTTCT
 TCGGGGTGTGAGCTGGCATGAGGACCTGTTGGAAGTGGGATCCAGGCCTGGTCCAGCCTC
 CCAGCTGCCTCGATTTGTGCGTGTGAACACTCTCAAGACCTGCTCCGTTTATGTAGTTAT
 TTCAAGAGACAAGGTTTCTCCTATCAGGGTCGGGCTTCCAGCCTCGATGACTTACGAGCC
 CTCAAGGGGAAGCATTTTCTCCTGGACCCCTTGATGCCGGAGCTGCTGGTGTTCCTGCC
 CAGACAGATCTGCATGAACACCCACTGTACCGGGCCGGACACCTCATTCTGCAGGACAGG
 GCCAGCTGTCTCCAGCCATGCTGCTGGACCCCGCCAGGCTCCCATGTATGGATGCCT
 GTGCCACCCAGGCAATAAAGACCAGTCACTTGGCTGCTCTTCTGAAGAACAAGGGAAG
 ATCTTTGCCTTTGACCTGGATGCCAGGCGGCTGGCATCCATGGCCACGCTGCTGGCCTGG
 GCTGGCGTCTCCTGCTGTGAGCTGGCTGAGGAGGACTTCTGGCGGTCTCCCCCTTAGAT
 CCGCGCTATCGTGAGGTCCACTATGTCTGCTGGATCCTTCTGCAAGTGGCTCGGGTATG
 CCGAGCAGACAGCTGGAGGAGCCCGGGGCGAGGACACCTAGCCCGGGCTCGTCTACTCC
 ATGTGCTCCCTCTGCCAGGAGGAGAATGAAGACATGGTACAAGATGCGCTGCAGCAGAAC
 CCGGGCGCCTTCAGGCTAGCTCCCGCCCTGCCTGCCCGGCCCCACCGAGGCCTGAGCACG
 TTCCCGGGTGCCGAGCACTGCCTCCGGGCTTCCCCAAGACCACGCTTAGCGGTGGCTTC
 TTCGTTGCTGTGAATTGAACGGGTGAGATGCCGACCTCAGCCTCACAGGCCAAAGCATCA
 GCACCAGAACGCACACCAGCCAGCCCAAAGAGAAAGAAGAGAGCAAAAAGCTGCAGC
 CGGTGCTTGACACCGCCTTGACATAGCAGAGGCTCCGGGCTCACTCCTTCTGGTGGG
 AAAGGAAGATGCCTGTCTCTCCGTGGAAGACCCTGGGCCCTCACCGCAGGCAGCAGTTT
 GCGTTTTGAAGGTTATTGGGTCCCTTCTCGGGCTGTGTTCTTGCTGGTGAAGCAAAAGT
 GTTGCTGCAGAAATAAAATGCAGAACGTACTCT

Gene 460. >ENST00000329896 cDNA sequence

GCCCAAGCAAAGCAGGATTTGTTTCACTACTCCAGATCGTTAGGGTGTGACTGAG
 GATGAGATGGGGCACCAGAGACAGGAGATGCTACTGCCCGGCTCAAGGAGGTCTGGAG
 TACAATGCCATTGGAGGCAAGTATCACCGAGGTTTGATGGTGTAGTAGCGTTCCGGGAG
 CTGGTGGAGCCGAGGAACTGGATGCTGATAGTCTCCAGTGGGCACCGACTGTGGGCTGG
 TATGCGCAACTGCTGCAAGCTTTCTTCTGGTGGCAGATGACATTATGGATTATCCCTT

FIGURE 1 (CONT'D)

ACCTGCCAGGGACAGATCTCCTGGTATCAGAAGCTGGGCATGGGTTTGGATGCCATCAAT
GATGCTATCCTTCTGGAAGCATGTATCTACTGCCTGCTGAAGCTGTATTGCCGGGAGCAG
CCCTATTACCTGAACCTGATGGAGCTCTTCCAGCAGAATTCTTATCAGACTGAGATTGGG
CAGACCCTCGACCTCATCAACCCCCCAGGGCAATGTGGATCTTCGAGATGCACCGAA
AAAAGGCACAAATCTGTTGTCAAGTACAAGACAGCTTTCTACTCCTTCTACCTTCTGTGA
GCTGCAGCCATGTACATGTCAAGAATGGATGACAAGAAGGAGCACACCAGTGCCAAGAAG
ATCCTGCTGGAGATTCAAGAGTTCTTTCAGATTGAGGATGATTACCTTGACTTCTCTGGG
GACCCAGTGTGACTGGCAGAGTTGGCAATGACTTCCAGGACAACAAATGCAGCTGGCTG
GTGGTTTCACTGTCTGCTACAGGCCACTCCAGAACAGTACCAGATCCTGAAGGAAAATTAC
AGGCAGAAGGAGGCCGAGAAGGTGGCCCGGGTGAAGGCACTATACGAGGAGCTGGATCTG
CCAGCCGTGTTCTTGCAGTATGAGAAAGACAGTTACAGCCACGTTATGGGTCTCATCGAA
TAG

Gene 461. >ENST00000305954 cDNA sequence

CAGTGTGGCAGTGGAGGCCGTCAGATTACTGATACTTATCCTTAAGAACATGGAAGGGGT
GCTGATGGACGCTGGAGTGTGAGAGCGTCTACCCCATTTGTGTAGGCCTCTAATTGAGGCCT
GGCCTCTGCTGTGGGTGAATTTCTGTACTGGAACTTTTCTACCTGAGTGCAGATAAG
AACGATGGGTGGAAGAGAGCAACGCCAGAGCCAGGTGCCAGAGGACTTTCTTCCAGCT
TCTGCTGTCTTTCTTTGTGGAGAGCAAGCTCCACGACCACGCTGCTTACTTAGTAGACAA
CCTGTGGGACTGTGCAGGGACTCAGCTGAAGGACTGGGAGGGTCTGACAAGCCTGCTGCT
GGAGAAGGACCAGAGCACGTGCCACATGGAGCCAGGGCCAGGGACCTTCCACCTCCTAGG
GTGAAACCAGGAGAGATTGCTTGCTTCACTTGTACAAGAATCGGCTCCAGACACCTGCC
ACTCGTGAATGCATCTGATAAACTCACTCACACTGAGGCCTTGGGGACTGAGGCCCTGGC
GGATCACGGGTGCCAGGGGCTCGGAGGCCGCTCCTCTGGGAAGCCTGCCAGGTTCCG
CTGGACTCCCAAGGCAATACCCCTGGGCCTTCTCGCGGCCCCCTGTTGGCCCCAATTCC
CCCACCCCTGCAAGGTCTGTGCCTCTCCTGCAGCCCCGCCACCAACTAGGGCGAGAGGA
GCTCGCCCCCACCACAAACGTATTGGTTTCGATGAAGGAAGGGCCCATGGTTCTGCCACTGG
CCCTGGACACCCAGTGTGGTTTCCCGTGAAGTCCCCCTGGACTGAGTGGCGGCTGGGT
GCTCTAGTGATTTGCGACCTGGGGCCTCTGACTCCCATCATGTTGGGAAAGTCGTTGAAC
CTCACCGGTGAAACGGGCACAGTGAAGTCATTTCCCCGAAGTCTCAGGACTCTGTGTAAG
GCTGGGGAAGGGGCTTGTGGGGCCTAAGGGCACCTTGGGAACTGCAGGAGCCGTTCT
GCCTCCATAAGACACTCACTCCTGGCAGGGTCCCCCTCTCGGGCACAGCCAGATCCACC
CCCATCATCCCTCTCCATCTGTGGCTCCCTGCCCTCACAGAGGATTCATCACTCTGTTT
AGAATCCCCAGGACTCCCTAGGGAAGGAGGTCCCAGCCTGGCCTCCCAAGACCGTGCTTG
CCCAATTCCAGGACTTCTCACATGGCTCCTACCTCCAGCACAGAAGCGGCCTAAACCA
GGTGGTCAATCAGGGAGCACACCCGAGGTTCTGAATGGTCCAGGGATGAGCAGTGATGCC
TCAAGCTAAGCCAATCAAAGCCTTCCCTGGGATTGTCTCAAGGAGTCCGAGTGAGATTCT
TGGGTCTCAGTACTGGGAAAGGGTGAAGGCTGAGGCTGCCTGCTGCTGGGGGCTCACC
CTGCCACCAACAGGAAGCCACACAGAGGGAAGCAGAAATGAGACGCAGCCAGTGAGGGCA
GGGTACAAAGGTGAGATCCCGGAGAGACAGATGCTGGGACATCATCCTTGGGTACTGGTT
CCAACAGTGCCTGCAGATGGAGCCACCTCGGAGAGTCCACAACAGCAGCCAATCCATTCT
TATGCGTGTCTGAGCTACTTTAAGTCGGGTTTTTGAAGTGTGATGAGAGTCTCATCTT
GGCTAGGCACCATGGCGCAACAACCTGGGGAGGTGGAGGTAGGAAGATTGCTTGAGGCCAA
GAGTCCCAGAGCAGCCTGGGCAACCTATCAAGACGCTGTCTTTACGAAAAGAAAAAAC
TAGCTAGGTGTGGTGGTGCCTGTGGTCCAGCTACTGGGGAGGCTGAGGTGGGAGG
ATTGCTTGAGCCAGGAAGTGGAGGCTGCAGTGACCTATGATGGCACCACTGTACTCCAG
CCTGGGTGACAGAGCAAGACCCTGTCT

Gene 462. >ENST00000257652 cDNA sequence

ATGGAGCTGAGCTATAGGCTCTTCATCTGCCTCCTGCTCTGGGGTAGTACTGAGCTGTGC
TACCCCCAACCCCTCTGGCTCTTGCAGGGTGGAGCCAGCCATCCTGAGACGTCCGTACAG
CCCGTACTGGTGGAGTGTGAGGAGCCACTCTGATGGTTCATGGTCAGCAAAGACCTTTTT
GGCACCGGGAAGCTCATCAGGGCTGCTGACCTCACCTTGGGCCAGAGGCCTGTGAGCCT
CTGGTCTCCATGGACACAGAAGATGTGGTCAAGTTTGAAGTTGGACTCCACGAGTGTGGC
AACAGCATGCAGGTAACTGACGATGCCCTGGTGTACAGCACCTTCTGCTCCATGACCCC
CGCCCCGTGGGAAACCTGTCCATCGTGAGGACTAACCGCGCAGAGATTCCCATCGAGTGC

FIGURE 1 (CONT'D)

CGCTACCCAGGCAGGGCAATGTGAGCAGCCAGGCCATCCTGCCACCTGGTTGCCCTTC
AGGACCACGGTGTTCTCAGAGGAGAAGCTGACTTTCTCTCTGCGTCTGATGGAGGAGAAC
TGGAACGCTGAGAAGAGGTCCCCACCTTCCACCTGGGAGATGCAGCCCACCTCCAGGCA
GAAATCCACACTGGCAGCCACGTGCCACTGCGGTTGTTTGTGGACCACTGCGTGGCCACA
CCGACACCAGACCAGAATGCCTCCCCTTATCACACCATCGTGGACTTCCATGGCTGTCTT
GTCGACGGTCTCACTGATGCCTCTTCTGCATTCAAAGTTCTCGACCCGGGCCAGATACA
CTCCAGTTACAGTGGATGTCTTCCACTTTGCTAATGACTCCAGAAAATGATATACATC
ACCTGCCACCTGAAGGTCAACCTAGCTGAGCAGGACCAGATGAACTCAACAAGGCCTGT
TCCTTCAGCAAGCCTTCCAAAGCTGGTTCCAGTGGAAGGCTCGGCTGACATCTGTCAA
TGCTGTAACAAAGGTGACTGTGGCACTCCAAGCCATTCCAGGAGGCAGCCTCATGTGATG
AGCCAGTGGTCCAGGTCTGCTTCCCGTAACCGCAGGCATGTGACAGAAGAAGCAGATGTC
ACCGTGGGGCCACTGATCTTCTGGAAGGAGGGGTGACCATGAAGTAGAGCAGTGGGCT
TTGCCTTCTGACACCTCAGTGGTGCTGCTGGGCGTAGGCCTGGCTGTGGTGGTGTCCCTG
ACTCTGACTGCTGTTATCCTGGTTCTACCAGGAGGTGTGCACTGCCTCCACCTGTG
TCTGCTTCCGAATAAAAGAAG

Gene 463. >ENST00000325070 cDNA sequence

ATGGTCAATCCCACCGTGTTCTTTGACATTACTATTGAGCCCTTGGGCTGCGTCTCCTTC
AAGCTGTTAGCAGACAGTGTTGTAAAGACAGCAGAAAACTTTCTGTTCTCTGAGCACTGGA
GAGAAAGGATTTGGTTATAAGGGGTTCTTTACAGAATTACTCCAGGGATTATGTGTGAG
GGTGGTAACTTTACACACCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAATTC
GATGAAGAGAACCTCATCCTGAAGCATAAGATCCTGGCATCTTGCCCATGGCAGATGTT
GGACCCAACACAAATGCTTCCAGTTTTTTCATCTGCACTGCCAAGACTAAGTGGTTAGAT
GGCCAGCATGTCTTTGGCAAGGTGAAAGCGAGCATGAATATTGTGGAGGCCATGGAGCGC
TACGAGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCT

Gene 464. >ENST00000324432 cDNA sequence

CTGAGAGTCGGAGCCACAGCCAGAGCCCTGCCAGGCCGAGCCGGAGCTGCAGCCCCGAGC
GCGGTGGTGCCCTCAGCCCCGTCTCTTGTCTCTCAGCCTCGGTGCCTTGGAATTTGT
GTCGCTGAGTCAGCAAGCCTTTAGATTTGCCCGGTTTTTGTGTTTGTGGTTTGTATCA
AGATGGGAACCTCAACAAGTCATTCTCTCTAAGGAGCTGGTGTCTTCATCCAGAAGGGAC
AGTTTGTGCCAGCTCTCCAGAGAGAAAAGATCTGCCGGAGGCGCTGGGCAATGACCCCGG
GACTCCAGGCCAGAGGGGTCTGAAGCTGTTTGGGAAAGCAGCGGGACTCCTTGGGAAGAT
GGCCATGGCCCCAAGCCCTTCCCTGGTGAGGTGTACACCAGCCCCGCGGCTGTGGCCGT
GTGGGAATGGCAGGACGGGCTGGGCACCTGGCACCCCTACAGTGCCACCGTCTGCAGCTT
CATCGAGCAGCAGTTTGTCCAGCAGAAGGGCCAAACGTTTTTGGGCTTGGGAGCCTGGCCCA
CAGCATCCCCCTTGGGCCAGGCAGACCCCTCGCTGGCCCCCTTACATTATTGACCTCCCCAG
CTGGACCCAGTTCCGCCAGGACACCGGCACCATGCGGGCTGTGCGGAGACACCTGTTCCC
CCAGCACTCAGCCCCTGGCCGAGGTGTGCTCTGGGAGTGGCTGAGCGACGATGGCTCCTG
GACTGCCTATGAAGCCAGCGTCTGTGACTATCTGGAGCAGCAGGTGGCCAGGGGCAACCA
GCTCGTGGACTTGGCCCCCTGGGGTACAATACTACTGTCAACTACACCACCCACACGCA
GACCAACAAGACTTCCAGCTTCTGCCGCAGCGTGCGGCGCCAAGCAGGGCCGCTTACCC
GGTGACCACCATCATCGCTCCGCCGGGCCACACAGGCGTCGCCTGCTCTTGCCACCAAGTG
CCTCAGTGGCAGCAGAACTGGCCCCGTGTGAGGCCGCTACCGCCACTCCATGACCAACCT
CCCTGCATACCCCGTCCCCCAGCACCCCCCACACAGGACCGCTTCTGTGTTTGGGACCCA
CCAGGCCTTTGCACCGTACAACAAACCTCACTCTCCGGGGCCCGGTCTGCGCCAGGCT
GAACACCACCAACGCCTGGGGCGCAGCTCCTCCTTCCCTGGGGAGCCAGCCCCCTTACCG
CTCCAGCCTCTCCACCTGGGACCGCAGCACCTGCCCCCAGGATCCTCCACCTCCGGTGC
AGTCAGTGCCTCCCTCCCCAGCGGTCCCTCAAGCAGCCAGGGAGCGTCCCTGCCACTGT
GCCCATGCAGATGCCAAAGCCAGCAGAGTCCAGCAGGCGCTCGCAGGCATGACGAGTGT
TCTGATGTGAGCCATTGGACTCCCTGTGTGTCTTAGCCGCGCACCCAGCCACCCAGCCC
TCCCGCCTCCCGTCTGGCTTCCAAAAGTCACGGCTCAGTTAAGAGATTGAGGAAAATGTC
CGTGAAAGGAGCGACCCCGAAGCCAGAGCCAGAGCCAGAGCAGGTATAAAAAACTACAC
GGAAGAGCTGAAAGTGCCCCAGATGAGGACTGCATCATCTGCATGGAGAAGCTGTCCAC
AGCGTCTGGATACAGCGATGTGACTGACAGCAAGGCAATCGGGTCCCTAGCTGTGGGCCA
CCTCACCAAGTGACGCATGCCTTCCACCTGCTGTGCCTCCTGGCCATGTACTGCAACGG

FIGURE 1 (CONT'D)

CAATAAGGATGGAAGTCTGCAGTGTCCCTCCTGCAAAACCATCTATGGAGAGAAGACGGG
GACCCAGCCCCAGGGAAAGATGGAGGTATTACGGTTCCAGATGTCGCTCCCGGCCACGA
GGACTGCGGGACCATCCTCATAGTTTACAGCATTCCCCATGGTATCCAGGGCCCTGAGCA
CCCCAATCCCGAAAGCCGTTCACTGCCAGAGGGTTTCCCCGCCAGTGCTACCTTCCAGA
CAACGCCCAGGGCCGCAAGGTCTAGAGCTCTGAAGGTGGCCTGGAAGAGGCGGCTCAT
CTTCACAGTGGGCACGTCCAGCACCACGGGTGAGACGGACACCGTGGTATGGAACGAGAT
CCACCACAAGACAGAGATGGACCGCAACATTACGGGCCACGGCTATCCCGACCCCAACTA
CCTGCAGAACGTGCTGGCTGAGCTGGCTGCCAGGGGGTGACCGAGGACTGCCTGGAGCA
GCAGTGACCTCGCACCCCAGCACGCCCGCCTCTGGTGGCCACCCGCTGCCCCATGGCTG
GCTGGGTGGCCAGGCAGGAAGTGCCAGCCGAGAGGCTGGGAGGTTTGTGAGGGTGTG
GGGTGTGCCCCACCTGAAGCCGGGGCTCCCCCTGCCTGCCTCTCTCTCCTCCTCCCCTCT
GGGAATTGGGCAGCCCTGGGCAGTTGTACTCATGGGGGCTTAGGATGCAGCTACCTCAGT
GCGCAGGGCCCGTCTGTCTCTGCGGGCTGCTTCGGGCCCGCGGTGCTCGGGGCTGGTG
TGGGGCGAGTAGAGACTTCCCCAGCCTGGACGGGCGTGGGTTCTGGGTCAGCTTCTTTTA
CCTCAATTTTGTGTTGCAATAAATGCTCTATAGCC

Gene 465. >ENST00000307630 cDNA sequence

ATGGTGGACCGCGAGCAACTGGTGCAGAAAGCCCGGCTGGCCGAGCAGGCGGAGCGCTAC
GACGACATGGCCGCGGCCCATGAAGAACGTGACAGAGCTGAATGAGCCACTGTCTGAATGAG
GAACGAAACCTTCTGTCTGTGGCCTACAAGAACGTTGTGGGGGACGCCGCTCTTCTG
AGGGTCATCAGTAGCATTGAGCAGAAGACATCTGCAGACGGCAATGAGAAGAAGATTGAG
ATGGTCCGTGCGTACCGGGAGAAGATAGAGAAGGAGTTGGAGGCTGTGTGCCAGGATGTG
CTGAGCCTGCTGGATAACTACCTGATCAAGAATTGCAGCGAGACCCAGTACGAGAGCAAA
GTGTTCTACCTGAAGATGAAAGGGGACTACTACCGCTACCTGGCTGAAGTGGCCACCGGA
GAGAAAAGGGCGACGGTGGTGGAGTCTCCGAGAAGGCCTACAGCGAAGCCACGAGATC
AGCAAAGAGCACATGCAGCCACCCACCCCATCCGATTAGGCCTGGCTCTTAACTACTCC
GTCTTCTACTATGAGATCCAGAACGCCCCAGAGCAAGCGTGCCACTTGGCCAAGACCGCG
TTCGACGACGCCATCGCCGAGCTTGACACCCTCAACGAGGACTCCTACAAGGACTCCACG
CTCATCATGCAGCTCCTCCGCGACAACCTCACGCTCTGGACGAGCGACCAGCAGGACGAC
GATGGCGGGCGAAGGCAACAATTAA

Gene 466. >ENST00000275560 cDNA sequence

GGGGCCGCTCCAGCTGGTGGCCGCCACCTCCACTCCCCCTTTGCTTCTTGCTGTCCCTAAG
GTCGGATGGGGACAGGCTGGGGCCACCAGCCAGCTCCATGGACAGGGACTTTGCCTCTGC
TCACCTTCCAGCTGTGGAAAGAAAAGAAGAAACGCCTGTGTTGATTTCCATTTGGAAGAT
CCTTCTCCTCCTAAACTTCCAGGGGCGAGACAAAGTGATTCTGATCTTGGATTGACTGTAG
AAGAAGGGACAGAAAGAGCCAGAACATTCCCCCAGATGTTCCAACCTGTGACTTCTCCCT
GGCGCCTTGATGGGAGCATCTGAAACACCTTTCACCATCTAGATGCACAAGGAAGCAGAG
ATGCTAATTGGTCCCAGCTGGATGAGAAGCGCTGGGGGTGGAGGTTGGGAGATGGGAGT
GCTGCCCCCTCCCTTCTCCCCAAGCCCTGTCTTTCCTTCTCCTCCTGCCACTGGCCAGC
GCCCTACAGCCCACTCCACTGCCCTTTCAAGAGCTGAGGCTGGTGGGGGGCCCCAGCCGC
TGCCGGGGCCGCTGGAAGTCATGCACGGTGGCTCCTGGGGCAGCGTCTGTGATGACGAC
TGGGACGTGGTGGACGCCAACGTAGTGTGTGCCAGCTGGGCTGTGGCCTGGCACTGCC
GTGCCACGGCCCCCTTGCCCTTTGGCCAAGGCCGAGGCCCATCCTGCTGGACAAAGTGGAG
TGCCGCGGGCAGGAAGCTGCGCTGAGCGAGTGCAGCAGCCGCGGCTGGGGCGTCCACAAT
TGCTTTCACTACGAGGATGTGGCTGTCTGTGTGATGAATTCTTGCCAACGCAGCCCCCA
ACAAGGAAGATGTTAACCAGTAGAGCACCTCCTACGACACTGCCGAATGGAAAAAGTGAG
GGCAGCGTACGCCTGGTAGGGGGCGCAACCTGTGTGAGGGCCGAGTGGAGATCCTGCAC
AGTGGCCTGTGGGGCACCGTGTGTGACGACGACTGGGGGCTGCCGGATGCCGCTGTGGT
TGTGCTCAGCTGGGCTGCGGGGCGGCCATGGCCGCCACCACCAACGCCTTCTTCGGCTAT
GGCACCGGACACATCCTGCTGGACAACGTGCACTGCGAAGGCGGCGAGCCCCGCCTGGCA
GCCTGCCAGAGCCTGGGCTGGGGTGTGCAAACTGCGGCCACCACGAGGACGCGGGCGCG
CTCTGCGCAGGCCTGGGTCCCCCAACGCTCACAGCACTGCCATCCTCAGCCACAAGAGAG
GACTGGGCTTGGCAGACAGATCCGTCCGCTACAGGAGTTGGCCCCCAGCCTTCCCGGGAG
ACAGCACTGCTCACCACCGCCGCTGGGCCGCGGGGAAGAAAAGTGACGGCTGCGACTG
GTGGGCGGCCCGGGTCCGTGCCGCGGCGCGTGGAGGTGTTGCACGCCGGGGGCTGGGGC

FIGURE 1 (CONT'D)

ACCGTGTGCGACGATGACTGGGACTTTGCGGACGCGCGCTGGCCTGCCGGAAGCGGGC
 TCGGGGCTGCGCTGGGCGCTACGGGACTGGGCCACTTCGGCTACGGCCGCGGCCCCGTG
 CTGCTGGACAACGTGGGCTGCGCCGGCACCGAGGCTCGCCTGAGCGACTGCTTCCACCTG
 GGCTGGGGCCAGCACAACCTGCGGCCACCACGAGGACGCGGGAGCGCTCTGCGCAGGCCCA
 GAGGAGCTGGGACTGCAAGTCCAGCAGGATGGTTCTGAGACCACGCGGGTGCCCACTCCT
 CGGCCAGGGACGGGCATCTACGTCTGGTCAATGGAGCCCACCGATGCGAGGGACGTGTA
 GAGCTCTACCTAGGGCAACGGTGGGGCACTGTCTGTGATGATGCTTGGGACCTGCGGGCA
 GCCGGTGTCTGTGCGCCAGCTGGGCTGTGGCCAGGCCCTCGCAGCCCCTGGCGAGGCT
 CACTTTGGCCCAGGCCGAGGCCCATTTCTCCTGGACAATGTCAAGTGCCGTGGGGAAGAA
 AGTGCTCTGCTGCTCTGCTCTCATATCCGCTGGGATGCCACAACCTGTGACCACAGCGAG
 GATGCCAGTGTCTGTGCCAGCCTTCATGACCCAGCCCGCTCTGCAGACCACCTCTTCTT
 CTGGGAGCTGTGACCTCCCTTCTCCTCCAGGAAGCCCTCCTCTTGTGATGACTACAGTT
 CACTTTGCCCTCCTTCCCTTGCCTGGGAGAGAGCCTACCTAGACAGTGCAGTCCTGCTT
 GGGGAGCCTGGCTGTACCCCGTCCACTTACTGCGTGACCTCAGCCTGTCTATCGACTGT
 TGTGAGCCCAATTCAGTGAAAGCTCCTGTGGTTTTGCTCAGCCAAAACAAAACGAGGGG
 AAGAGGATGATTCTAACTCTTCTGTTTTGGTGGGGCTCTTTTTATAGCACCAGACTCTGC
 CTTCTTTGACCTAGATCCAGGAGGCTCAGGGGCTCTTTAAATGGGGTATCTCCTCTTCCC
 CCAACCCATCTTTGGGATCCCCAAGAAGAGGGAAGGCAGGAGGGGCCTACAGCTCCTACCT
 TGGGCCCTCAGGGGCTGCAGAGGAACCTGGGTCCCTGTCTGCTGCTCCGCGAGGGCC
 TGGACTAACTCAGATGGTGCTCGGCTGGACAAGGGGACTGGGGGAGGGGCCAAAGCAGGG
 ACAGTGGCCCCCTCCCTGCAGCTGGAACAGCATCTCTGATTTATGCCGTCTCCACCACAG
 AGCCTCCACTTTGCAGGAGTGAAGAACCCTGGGGGCTGTAGCCACCAGTTCATAGGTGC
 CAAGTCAATAAAGCATTGTCCCCCGTCTCTTATAACTGCA

Gene 467. >ENST00000297799 cDNA sequence

ATGACTGGGACTTTGCGGACGCGCGCTGGCCTGCCGGAAGCGGGCTGCGGGCCTGCGC
 TGGGCGCTACGGGACCTGGACAACGTGGGCTGCGCCGGCACCGAGGCTCGCCTGAGCGAC
 TGCTTCCACCTGGGCTGGGGCCAGCACAACCTGCGGCCACCACGAGGACGCGGGAGCGCTC
 TGCGCAGGTGAGGCTGACAGCGAAGGCCAGAGGAGCTGGGACTGCAAGTCCAGCAGGAT
 GGTCTGAGACCACGCGGGTGCCCACTCCTCGGCCAGGGACGGGCATCTACGTCTGGTC
 AATGGAGCCCACCGATGCGAGGGACGTGTAGAGCTCTACCTAGGGCAACGGTGGGGCACT
 GTCTGTGATGATGCTTGGGACCTGCGGGCAGCCGGTGTCTGTGCGCCAGCTGGGCTGT
 GGCCAGGCCCTCGCAGCCCCTGGCGAGGCTCACTTTGGCCCAGGCCGAGGCCCATTTCTC
 CTGGACAATGTCAAGTGCCGTGGGGAAGAAAGTGCTCTGCTGCTCTGCTCTCATATCCGC
 TGGGATGCCACAACCTGTGACCACAGCGAGGATGCCAGTGTCTGTGCCAGCCTTCATGA
 CCCAGCCCGCTCTGCAGACCACCTCTTCTTCTGGGAGCTGTGACCTCCCTTCTCCTCCA
 GGAAGCCCTCCTCTTGTGATGACTACAGTTCACTTTGCCCTCCTTCCCTTGCCTGGGAG
 AGAGCCTACCTAGACAGTGCAGTCCTGCTTGGGGGAGCCTGGCTGTACCCCGTCCACTT
 ACTGCGTGACCTCAGCCTGTCTATCGACTGTTGTGAGCCCAATTCAGTGAAAGCTCCTGTG
 GTTTTGTCTCAGCCAAAACAAAACGAGGGGAAGAGGATGATTCTAACTCTTCTGTTTTGG
 TGGGGCTCTTTTTATAGCACCAGACTCTGCCTTCTTGGACCTAGATCCAGGAGGCTCAGG
 GGCTCTTTAAATGGGGTATCTCCTCTTCCCCCAACCCATCTTTGGGATCCCCAAGAAGAGG
 GAAGGCAGGAGGGGCCTACAGCTCCTACCTTGGGCCCTCAGGGGCTGCAGAGGAACCTGG
 GTCCCTGTCTGCTGCTGCTCCGCGAGGGCCTGGACTAACTCAGATGGTGCTCGGCTGGAC
 AAGGGGACTGGGGGAGGGGCCAAAGCAGGGACAGTGGCCCTCCCTGCAGCTGGAACAG
 CATCTCTGATTTATGCCGTCTCCACCACAGAGCCTCCACTTTGCAGGAGTGAAGAACCCT
 GGGGGCCTGTAGCCACCAGTTCATAGGTGCCAAGTCAATAAAGCATTGTCCCCCGTCTCT
 T

Gene 468. >ENST00000320902 cDNA sequence

AATTTGGAATCAATAGGCAGGAGTCATTTTCAAATCAAGAAAGATCAGAATTTGGTAACA
 GACTGGATGAGACTGATAAAGGAGAGCGCCACAATGACTCTCAGGGTTCCCTGGAAGGG
 ACGGGGGCGGGCATACTGCGGTGCTACAGAAGGTGGCAGCAGCAGGTCCCAGGGCTCCAG
 TTACAGCAGCTCAGACCTGCACTCATGCCAAGGACTCTCACAGACCCTTTCCCTGCAATG
 ATTTCACTGAGTGCAGACTCCAGCAGGTGCGCCACAGCGCAGCTCCTGCCCTCAGGACC
 TCTCAGGCAGTTGGGGGAGAGGCACCTCTGTGCAGGGGCTGTGTTCACTCTTCTGCAA

FIGURE 1 (CONT'D)

ATGGCGAGTGGCAGGCTGGGAATGAACCTCAGGGCTGTGCCTTCCTTAAGCCTGGACTGT
TCCACTGTATCAACATACCTGCCTCACACAAACAATTCTACCAGCACGGGATCAGTAATA
TTTCATACATCAGAGGTGTGTGAGAACTAATTTTGCTGGAAGAGGGGTGAGGCGAGG
TACAGAGAGGAAGGTGTGCACAGGTGAGGCCTTGAGGGGTGGGAGGCAGGGAGGGGAGC
TGCTTTCCAGGCAAAGGGAACGAGGAGAAGATTTCCACATAAAGATCTGGGCCTTGGCAC
CTCACTCCTGGCAGCCTGTCTGTAATTCCTCTGGTCACCCCTCTGTGGAGCAGTGTGCC
TGCCTCAGTCATCTCTGTTGATGATTTAAGCCTAGCAGCCTTCAGC CAAATGTGGCAACT
GTGTAAGCCAATACCCAGCTAGCTCCTGGACCACTCGGATGCCCATCAACATGTACGAGG
CTGGGGTTACTTCTCCTGGGATCCAGAAATCCTCAGATTTGCACGCAATGCAAATGGGC
ATTGCGGGGGGCTGTGGGTGGTCCCGATTCTGTTCTTGGGAGCGGGAGTGAAAAGCAAG
CCTGTGCTGGGGAACTGGCACCTTCACTGGTGGCCACGCTGCTGGGGCTGGGCGTGAAG
CTGCCTCCGGCCCTTGAGAGGAGTGTGAGGGAAGGGAGGCGGCAGTGCTTTTTATACAC
AGGAGCTGGAGGAGGGTGATGGCAGCTTGAGGAAGTCATCACTGCCATGGTAGGGGGGA
AATCTGGAAATATTGGGCATGTGGCCCTCCCCTTCCACCGTAACCCCAAGCTCCTCAGC
CCACTTCTTTCCACCAGGCACCTTTGGGCTTCCTCTAGGTGGAACAGCCAAGTCCTGAG
TCTCTTTGCTCAGAAGCTCAAGTGATTCAATTTCTTTTCTCCAACTTTTCCAAGACTGC
AATACCTCTTGGAAGGACGTGACCAATGTGGCTGAGACACACTGGGCAGAGCCGCACT
ACTCATTTATGCAAAACCATTACTCTGGCCGCCGATCAGTCTCCCTTCCCCTTTTCAGC
AATCATGTATCCATTAGCCTGTTTGATTGCCGCTGCTCAAAAGGGGCGCCTTCGCTGA
ACCGTCTTCAATGGCCTCTGGATCTCTCCCCTGAGAGAAGCCGGCTAATTTGGAATGTGG
TCGTGTGTATGAATCCGACACAGCCTCAGT CACAATCGGGTGTCTTTTCTGTAGCTGCT
GTTTATGATCACTTTGCCTTGCCTCTCTGGGAGCCATAATTACCA CATACTGGAGATAG
GCTGGGTGTTCTTTTCCCCTGAATCCTGGACAGGATGTACACAAATGTGCTAGCCCCTT
CTTGGTGACCAGGCTAATTCCTCAGTGGCTTGGTGGCTGCTGCCTCTCATTAGAGGGATT
CCCTAAGCACTATTTGCTTGACAAATTTTCAAGGTTTTTAAAAGCAGAAGCCTTTGCTAA
TTTTCCCAAGTTGGCCTAAGAGTCCACTGTGAAGTGCAGCAGAAATTGGGGAAATTTAAT
AAATGTTGATCAATGAC

Gene 469. >ENST00000244699 cDNA sequence

TCTTCCCGGAGGTCTCCAGATACCGCCGGAGTATGAGTGGCCTTCCCAATCTACAGGAA
ACATTAAAAGAGAGACAGGCAAGATTTAGAGAGGCAAGGGAAAGCCGAAGACTGAAAATT
GACCTTTCATACAAATATATATTTTGAATTTCTAGCAGAAAATCTTGGCCTGGACATAGTA
ACTGTTGAAGAATTAATTTTGGATTGCCCATCTAATGTGGTCGAACTATTGCTGGAGCAA
CTAAAGGGGCAAAAATGATGAAATTGTATATAGACAATGCAGCCCCGGATAAACTAAAAG
GACTGTGCATATTTTTTGTTCGTTGCCGTAATGATGTTGCTATAAATGTTAAACTATTC
AAGAGGAAGCGCTCTTTACTGTTCTGGATGCGTCGAAAGGACTCTTAAATGGAATTAGGG
ATATGTTGGCAAATATATTTCTACCAGCTGTTCTTGCAACAAACAACCTGGGGTGCTTTAA
ACCAAGTCCAAGCAGGGAGAATCTGAAAAACATATTTTCACTGAAAACCATCAACAGATATC
TTTCATTTTTTAGATGGTGCTAGAATAAGTATTGAGGGAAAGTGAAGTTAAAGACAATAG
ACAATGTTAATTTTTCCAAACTGCACACCTTTGAAGAAGTAAGTCTGTCAGCCAGCAACT
CAGAACTGTTTATCAGCTGGAGGAAGTCTGATGGTATGGTACAAACAGATCGAACAGG
TACTTATTGAGAGTGAGCAGATGAGAAAAGAAGCTGGTGATTCAAGTCCACTCACTGAAT
TGGAACACTGGAAACGCATGTGAGCCAAGTTCAACTATATCATTTGAGCAGATTAAAGGGC
CAAGTTGTAAGGCTGTCTATAAATGTGCTAAATGTTGCACACTC CAAACTGCTAAAGAATT
GGCGTGATTTGGATGCAAGAATCACTGATACAGCAAATGAATCCAAAGATAATGT CAGAT
ATTTGTATACTTTGGAAAAAGTGTGTCAACCTCTCTATAACCATGACCTAGTTTCCATGG
CACATGGAATACAAAATTTGATTAATGCCATCAGAATGATTCACGGTGTGTCAAGGTATT
ATAATACCTCAGAGAGAATGACCTCATTGTTTATCAAGGTAACAAATCAAATGGTAACAG
CATGTAAAGCATATATTACTGATGGAGGATTAAACCATGTATGGGATCAGGAAACGCCAG
TTGTACTAAAGAAAATTGAGGACTGCATTTTTCTATTCAAGGAATATCAGGCATCTTTTC
ATAAAACAAGGAACTGATTTGAGAATCCTCAGGGGAAAAATCTTTTGAGGTTTCAGAAA
TGTATATATTTGGAAAATTTGAAGCTTTTTGCAAAAGACTGGAGAAGATTACAGAAATGA
TAACTGTTGTGCAAAACATATTCAACCTTGAGTAATTCTACCATAGAAGGAATAGATATTA
TGGAATAAAATTGAGAAATATATACCAAGGGTTAAGAAAAAGCAATATGACATTCTGG
ATCCAAGAAGGACAGAATTTGACACAGATTTCTTAGATTTTATGACAAAAATCAATGGTT

FIGURE 1 (CONT'D)

TAGAGGTACAAATACAGGCATTTATGAA CAGTAGTTTTGGGAAAATCTTATCTTCTCAGC
 AGGCTCTTCAGCTACTTCAAAGGTTTCAGAAGCTGAACATTCCTGTCTGGGATTAGAAA
 TAAACCAACACAATAGAGCGTATTCTTCAGTACTATGTGGCTGAACTTGATGCTACTAAGA
 AGGCAAGTCTTTTATCATTCTCAGAAAGATGACCCCCCTCTTGCTCGCAACATGCCCCCTA
 TAGCAGGAAAAATACTCTGGGTGAGGCAGCTCTATCGCCGGATAAGTGAGCCCATCAATT
 ATTTCTTTAAAAACTCAGACATTTTATCAAGTC CGGACGGTAAAGCTGT CATCCGTCAGT
 ATAACAAGATCTCCTATGTGCTGGTGGAATT CGAGGTGGTCTATCACACAGCCTGGATCA
 GAGAGATTTTACAGTTGCATTACGCTTTACAAGCCACGCTTTTTGTGCGACATCCAGAAA
 CAGGGAAGTTGCTGGTTAATTTTCGATCCCAAATTTTGGAAGTTGTT CGGGAAACTAAGT
 GTATGATAAAAATGAAGTTGGATGTACCAGAACAGGCAAAGAGATTGCTAAAATTGGAAA
 GTAAATTGAAAGCAGACAAACTGTATTTGCAGGGTCTTCTGCAATATTATGATGAGTTAT
 GT CAGGAAGTGCCTTCTGTGTTTGTCAATCTGATGACCCCAAAAATGAAAAAGGTGGAAT
 CTGTGTTGAGGCAAGGACTCACAGTGTTAATCATGGTCGTCTTTAACTGGAAGCTTCT
 TTCAAGAAGTCGAATTAGTTTTGGATATGTTCAATCAACTTTTAAAGAAGATCAGTGACT
 TGTGTGAAATGCATATTGATACAGTTCTGAAGGAGATAGCCAAAAGTGTGTTGATTTCTC
 TGCCTGAAAGTGGTGCTACCAAAGTAGAAGATATGTTGACCCTCAATGAGACATACACAA
 AAGAATGGGCTGACATTCTAAACCACAAAAGTAAGCATGTGGAAGAAGCTGT CAGAGAAC
 TTATATCAATATTTGAGCAGATTTATGAAGTGAAATACACTGGGAAAGTAGGAAAAAGT
 CAGAACAGCGGAAACACGTTGTTTTTGAAGTGAAACAGGAGAGGGTGAAAAAATGACT
 ATGAAGCTAATATTGTGAATGAGTTTGATACTCATGATAAAGAAGATGAATTTAAAAAGG
 AGTGTAAGAGGTCTTTGCTTTTTTCTCTCATCAATTACTAGACAGTCTTCAAAAAGCTA
 CACGGTTATCTCTGGACACAATGAAAAGAAGAATATTTGTTGCAAGGCAAGTTGAAAATA
 TGCTAATTATCCTTTATGGGCGAAAGCAGTCAGAAGATATTATTTCTTTATAAAAAGTG
 AAGTACATCTTGCAATTCCTAATGTGGTGATGATTCCTAGTTTGGATGACATTCAACAAG
 CCATTAAACCGTATGATCCAGTTAACCTGGAGGTGAGCAGAGGAGTGGCTCACTGGGGGC
 AACAGCAAATCCGTCCCATCAAGTCTGT CATTCCCAGCCCCACCACTACTGACGTGACCC
 ATCAAAACACAGGAAAAGTCTGAAGAAGGAAGAAAGATCTTTTGAAGAAGCTATTCCTG
 CGAGGAAGCTGAAGAATTTTTACCCGGGGGTAGCGGAGCACAAGGATATTTCTAAGTTGG
 TCCTGCTCCTTTCTTCTCTGTAAATTCCTAAGAAAGGCAGCTCATGAGGCCCTGCAGG
 ACTTTT CAGAAGTACAAGACTCTCTGGACAGAGGACCGCGATGTGAAAGTGAAGGAATTTT
 TGGCTAAACACCCCTCTCTGACTGAAATCAGATCAGAAATTCTACACTATGCTACTTTTG
 AACAGGAGATTGATGAGTTGAAGCCTATTATTGTTGTAGGAGCACTTGAATTACATACAG
 AGCCGATGAAATTGGCCTTATCCATCGAGGCCAAGGCATGGAAGATGTTACTCTGTGAT
 ATCTGAATGAAGAATACAAAAAGAAAATGT CATAATGATAGCATTTATTAATGAATACT
 TGAAAAAGTTATCTAGACCTATTCTGTGATTTAGATGATGT CAGATTTGCAATGGAAGCCT
 TGTCTTG CATACGTGATAATGAAATTCAAATGGACATGACTTTGGGACCAATTGAAGAAG
 CCTATGCTATTTTAAACAGATTTGAAGTTGAAGTAACCAAAGAAGAATCAGAAGCAGTTG
 ATACCTTAAGATATTCTTTCAACAAATTGCAGAGCAAAGCTGTTTCAGTACAAGAGGACC
 TAGTTCAAGTGCAGCCAAAGTTTAAAGCAATCTACTTGAGTCTGTGGAAGTTTTTTCGTG
 AGGACGTGATAAACTTTGCAGAAGCATATGAATTGGAAGGACCTATGGTTCCAAATATAC
 CACCCCAAGAAGCTAGCAACAGGCTACAGATATTT CAGGCCAGTTTCGATGATCTGTGGA
 GGAAATTTGTTACGTATTCTCTGGTGAA CAACTTTTTGGATTGCCTGTGACTGATTATG
 AGGTTTTTACACAAAACCAGAAAAGAACTCAACTTGCTGCAGAAGCTGTATGGATTGTATG
 ACACCGTAATGAGCAGTATTAGTGGTTATTATGAAATACTTTGGGGAGATGTAGATATTG
 AAAAAATTAATGCAGAACTGCTGGAATTTCAAAAAGAGATGTGTAACCTTCCAAAAGGAC
 TTAAAGATTGGCAAGCTTTTTTGGATCTCAAAAAGAGAATTGATGATTT CAGTGAGTCAT
 GTCCTCTACTGGAATGATGACCAATAAGGCCATGAAACAGAGACACTGGGATAGAATCT
 CCGAGTTAACTGGAACCCCATTTGATGTGGAATCTGATTCTTTTTGCCTTAGAAATATCA
 TGGAAGCACCCTCCTTAAACATAAGGATGATATTGAGGATATTTGCATATCTGCCATTA
 AGGAGAAGGATATCGAAGCCAAGCTGACTCAGGTGATTGAGAAATTGGACCAACCAAAATC
 TGAGTTTTG CAGCATTTAAGGGAAAAGGAGAGCTCCTGCTCAAAGGAACCGAATCGGGAG
 AAATTATCACTTTGATGGAGGATAGTTTAATGGTCTTAGGGTCTTTACTCAGCAACAGAT
 ACAATGCTCCATTTAAAAAAAATATCAGAATTGGGTGTATAAATTGTCCACTTCCTCAG
 ATATAATTGAAGAGTGGCTCGTAGTACAGAACTTTGGGTTTATCTTGAAGCCGTCTTTG

FIGURE 1 (CONT'D)

TAGGTGGAGATATTGCCAAACAGCTGCCTCAGGAAGCAAAACGTTTTTCAGAATATTGACA
 AGTCTTGGATAAAAATAATGCAGCGAGCTCATGAGAATCCCAATGTGATTAATTGCTGTG
 TTGGAGATGAAACCATGGGACAACTTTTACCTCATTTACATGAGCAGTTGGAAGTATGTC
 AGAAGTCACTCACAGGGTATTTGGAGAAGAAACGATTACTGTTTTCCAAGATTCTTCTTTG
 TATCTGATCCAGTTCTCCTGGAAATTCTTGGACAAGCCAGTGATTCCCACACCATACAGC
 CGCATCTCCCTGCAGTATCTGACAACATCAATGAGGTGACATTTTCATGCAAAAGACTATG
 ATCGCATCATGGCCGTATATCAAGAGAAGGAGAAAAAATTGTTTTGGATAATTCTGTTA
 TGGCCAAAGGTCCTGTGGAGATTTGGCTACTGGATTTGTAAATAATGCAGATGTCATCAT
 TACATAATATAATTAGATCCGCTTTCTATCAAATCAGTGATTTCAGGATTTCAACTCTTAC
 CATTCCTCAGCCACTTTCCAGCACAGGTTGGACTTCTGGGAATTCAGATGTTGTGGACAC
 ACGATTTCAGAAGAGGCTTTACGTAATGCAAAAGATGACAGGAAAATCATGCAAGTGACCA
 ATCAGAAAATTTTGGATATTCTAAATACTCTCATTAGTCAGACAAACATGATCTAAGCA
 AGTTTGTATAGAGTGAAGTTCGAGACTCTAATTAACCATCCATGTGCATCAGAGAGATATTT
 TTGATGACTTGGTAAAAATGCATATCAAATCACCTACTGACTTTGAATGGCTAAAAAGAG
 GTAGATTTTATTTTAAAGGAAGATTTGGATCAAACCTGTGGTGTCTATTACAGATGTTGATT
 TTATTTTACCAAATGAATTTCTGGGATGTACTGATCGTCTTGTTATCACTCCATTAACAG
 ATAGATGCTATATCACGTTAGCTCAGGCCTTGGGCATGAACATGGGAGGTGCTCCCGCAG
 GACCTGCTGGCACTGGCAAAACAGAAACCAAAAAGACATGGGAAGGTGTTTGGGAAAAT
 ATGTGGTCTGTTCATTGCTCAGATCAAATGGATTTTCAGAGGCCTAGGAAGGATTTTCA
 AAGGCAAGTGTCTTGCACAGTCGGGTTCTTGGGGCTGTTTTGATGAGTTTAAACAGAATTG
 AATTGCCTGTATTATCAGTGGCAGCACAACAAATTTATATTGTTTTGACAGCAAGAAAAG
 AAAGAAAGAAACAGTTCAATTTTTCTGATGGTGAATTGTGTTGATTTAAATCCAGAATTTG
 GAATCTTCTTAACGATGAACCTGGATATGCTGGGCGCCAGGAACTACCAGAAAACCTAA
 AAATCCAGTTTAGAACTGTTGCTATGATGGTTCCTGATAGACAGATCATTATGAGAGTTA
 AACTTGCAAGCTGTGGTTTTCTTGAATGTTATCTTGGCTCAAAAATTTTACGTTCTTT
 ACAAACCTCTGTGAAGAGCAACTTACTAAACAGGTTTATTATGACTTTGGATTGAGAAATA
 TTCTGTCTGTATTGAGGACTCTTGGATCTCAAAAAGAGCCAGACCAGAAGATAGTGAAT
 TAAGCATTGTCTATGAGAGGACTAAGAGATATGAACCTTTCCAACTGGTTGATGAAGATG
 AACCCCTGTTCTCAGCTTAATCAATGACCTGTTCCAGGACTGCAACTGGATAGTAATA
 CTTATGCAGAACTGCAAAACGCAGTAGCCCATCAGGTTTCAGATAGAGGGTTTGATTAACC
 ATCCACCCCTGGAACCTGAAACTCGTGCAGTTATATGAGACGTCTTTGGTACGGCATGGCT
 TGATGACTCTTGGGCCCAGTGGTTCTGGAAAGACAACCGTTATCACGATTCTAATGAAGG
 CGCAAACAGAATGCGGAAGGCCTCATAGAGAAATGCGAATGAATCCAAAAGCCATTACTG
 CACCTCAGATGTTTGGCAGACTGGACACTGCTACCAATGACTGGAAGATGGGATTTTTTT
 CTACTCTGTGGAGAAAAACATTAAGGCTAAAAAAGGTGAAAAATTTTCTCATTATTTAG
 ATGGTCTGTGGATGCCATCTGGATTGAGAACTTAAATTCGTTTTTGGATGACAATAAAA
 CTCTGACGTTAGCTAATGGAGATCGCATTCCCATGGCCCTAGTTGTAAGCTTCTGTTTG
 AAGTCCACAATATCGGAAACGCCTCTCCTGCCACGGTTTTCTAGGATGGGCATGGTCTATA
 TCAGCAGCTCTGCTCTCAGCTGGAGGCCAATCTTACAGGCATGGTTGAAGAAACGCACTG
 CACAGGAAGCTGCTGTATTCTGACACTGTATGAGAAAGTCTTTGAAGATACATACACAT
 ATATGAAGCTAAATCTCAATCCCAAAATGCAGCTCTTGGAGTGCAACTATATTGTGCAAT
 CTCTCAATCTTCTGGAAGGGTTAATTCCCTCCAAAGAAGAAGGCGGTGTTTCTGTGTCTG
 AACATCTTCATAAATTATTTGTGTTTGGCCTAATGTGGAGTTTAGGAGCCCTTCTGGAAT
 TAGAAAGCAGAGAAAAGCTTGAAGCCTTCTTACGGCAGCATGAAAGCAAGTTGGACTTAC
 CAGAAATACCTAAAGGCTCAAATCAAACCATGTATGAGTTTTATGTTACTGATTATGGTG
 ATTTGGGAGCACTGGAATAAGAACTTCAGCCTTATTATTATCCAACTGACAGTATTCCGG
 AATATTTCATCAATTTTGGTTCCAAATGTTGACAATATTAGAACAAATTTTTTGATAGACA
 CCATTGCAAAACAACATAAAGCTGTTTGTCTCACAGGAGAGCAGGGAACTGCAAAAACCTG
 TCATGGTTAAGGCCTATTTGAAAAAATATGATCCTGAAGTACAGCTATCCAAAAGTCTAA
 ACTTTTCATCTGCCACAGAACCAATGATGTTTTCAGAGAACAAATTGAAAGCTACGTGGATA
 AGCGAATTGGAAGCACATATGGGCCACCAGGAGGGAGAAAAATGACTGTATTTATTGATG
 ATATTAATATGCCTGTGATTAATGAGTGGGGAGATCAGATAACTAATGAGATTGTGCGAC
 AGATGATGGAATGGAAGGAATGTACAGCTTGGACAAGCCTGGAGACTTCACTACTATTG
 TTGATGTGCAGCTCATAGCAGCAATGATCCACCCTGGAGGTGGTCGAAATGATATTCAC

FIGURE 1 (CONT'D)

AACGTTTAAAAAGACAATTTACTGTGTTTAATTGTACATTGCCTTCAAATGCTTCAATAG
 ACAAATTTTTTGAATTATTGGATGTGGATACTTTGATCCTTGTAGAAGTTTCAAGCCTC
 AAATATGTGAGATGATTGTGAATTTAGTCTCAGTGGGTAGAGTGCTGTGGCAATGGACTA
 AGGTGAAGATGCTGCCAACTCCTTCTAAATTTATTACATCTTCAATCTTCGAGATCTTT
 CCAGAATTTGGCAAGGAATGTTGACCATAAAAGCTGAGGAGTGCGCTTCAATCCCTACTC
 TCCTGTCCCTTTTCAAACACGAGTGACAGAGTAATTGCAGACAGATTTATAACTCCTG
 AAGATGAGCAGTGGTTTAATGCACATCTTACTCGTGCAGTTGAAGAAAATATTGGCTCTG
 ATGCAGCGTCTGTATTCTTCCTGAACCATACTTTGTGGATTTTCTTCGTGAGATGCCAG
 AACCAACTGGTGATGAACCTGAAGACTCTGTGTTTGAAGTACCCAAAATATATGAATTGA
 TGCCATCCTTTGACTTTCTGGCTGAAAACTCCAGTTTTACCAGAGACAGTTCAATGAAA
 TCATTAGAGGAACATCTCTTGATCTGGTGTTTTTTAAAGATGCAATGACTCATCTTATTA
 AGATTTACGAATAATTCGAACGTCGTGTGGAAATGCATTGCTGGTGGGTGTTGGTGGTT
 CCGGAAAACAAAGTCTTTCAAGATTGGCCTCTTTTATTGCTGGCTATCAAATATTCCAGA
 TAACATTAAACCAGGTCTTACAATGTGACTAATCTAACAGATGATTTAAAAGCTTTGTACA
 AAGTTGCTGGTGCTGATGGAAAAGGCATCACTTTTCATCTTTACTGACAGTGAAAATAAAG
 ATGAGGCATTTCTAGAATACCTTAACAACCTTGCTATCTTCAGGGGAGATCTCCAACCTGT
 TTGCACGAGATGAGATGGATGAAATCACCCAAGGTCTGATTTCACTGATGAAGAGGGAGC
 TACCTCGCCATCCTCCTACCTTTGATAATTTGTATGAATACTTCATTTCAAGATCAAGGA
 AGAATTTACATGTTGTTCTCTGCTTTTCTCCAGTTGGTGAGAAGTTCCGTGCCCGTTCTT
 TGAAATTTCTGGCTTGATATCAGGTTGCACTATGGACTGGTTCAGCCGCTGGCCAAGGG
 AGGCTCTGATTGCTGTGGCCTCCTACTTCCTTTCAGACTATAATATTGTCTGCTCTAGTG
 AAATTAAGACAAGTTGTAGAAACAATGGGCCTGTTTCATGACATGGTTTCAGAGAGCT
 GTGAAAGTTATTTCCAAAGATACCGCCGAAGAGCACATGTGACTCCAAATCTTACCTCT
 CATTTATAAATGGTTATAAAAAATTTATGCTGAAAAGGTGAAGTTCATTAATGAACAGG
 CTGAACGTATGAATATTGGTCTTGATAAACTAATGGAGGCAAGTGAATCTGTTGCTAAAC
 TCTCTCAGGATCTTGACAGTCAAGGAGAAGGAGTTGGCAGTGGCTTCATAAAAGCAGACG
 AAGTATTAGCAGAAGTCACAGTAAGCGCTCAGGCTTCAGCCAAAATTAATAATGAAGTAC
 AGGAGGTAAAGGACAAAGCCCAAAAATTTGTGGATGAAATTGATAGTAAAAAGTGAAAG
 CTGAAAGCAAGCTTGAGGCAGCTAAACCTGCACCTGGAAGAAGCAGAAGCAGCCCTGAATA
 CTATCAAGCCAAATGATATTGCACAGTCAGGAACTTGCAAAAC CACCACATCTTATTA
 TGAGAATCATGGACTGTGTTCTGTTACTATTTCAAAGAAAATTGACCTGTTACTATGG
 ATCCAGAAAAATCTTGCTGTAAGCCATCATGGGGAGAGTCATTAAAGTTGATGAGTGCAA
 CAGGATTCCTGTGGAGCCTTCAGCAGTTCCTTAAGGACACTATAAATGAAGAGACTGTTG
 AGTTACTACAGCCATATTTTAATATGGATGATTATACTTTTGAAAGTGCCAAAAAGTCT
 GTGGGAATGTGGCTGGTCTCCTGTCTTGACACTTGCTATGGCAATATTTTATGGCATCA
 ATAGAGAAGTGTTGCCCTCTGAAGGCCAACCTGGCCAAGCAGGAAGGCCGGTTAGCAGTTG
 CTAATGCTGAGTTAGGGAAGGCACAAGCCCTGCTGGATGAGAAGCAAGCTGAGCTGGATA
 AAGTACAGGCAAAATTTGATGCAGCAATGAATGAGAAAATGGATTTGCTTAATGACGCTG
 ATACGTGCCGGAAGAGATGCAGGCCGCCTCCACTCTCATCGATGGGCTGAGTGGAGAAA
 AAATCCGGTGGACCCAGCAAAAGTAAAGAATTCAAAGCTCAGATTAATAGACTTGTAGGTG
 ATATTCTGCTGTGCACGGGATTCTTTTCTACCTTGGTCTTTTCAATCAGATATTTAGGA
 ACTATTTGCTTAAAGATCAATGGGAAATGGAGTTGAGAGCACGGAAAATTCCTTTTACAG
 AAAACCTGAATCTTATTTCAATGTTGGTGGATCCTCCAACCTATTGGTGAGTGGGGGCTAC
 AGGGATTACCAGGAGATGATCTCTCAATTCAGAATGGCATTATTGTGACAAAGGCCACCA
 GATACCACTCCTCATAGACCCACAACTCAAGGCCAACTTGGATTAAATCAAAGGAAA
 AAGAAAATGATTTACAGGTGACATCTCTGAACCATAAATATTTTTCGACACACTTGGAGG
 ACAGCCTTTCTTGGGCGGACCCCTTCTCATTGAGGACATTCATGAAGAGCTGGATCCAG
 CCTTGGATAATGTATTAGAAAAGAATTTTATTAAATCTGGCACCCTTTCAAGGTGAAAG
 TCGGTGATAAGGAATGTGATATCATGGATACATTTAACTTTACATTACTACGAAGTTAC
 CAAATCCTGCCTTTACCCAGAGATTAATGCTAAAAAGTCAGTCATTGATTTCACTGTTA
 CAATGAAAGGACTTGAGAATCAGTTACTAAGGAGAGTCATTCTAA CAGAGAAAACAGGAGT
 TAGAGGCTGAGAGGGTTAAACTTTTGGAGGATGTTACTTTTAAATAAGCGGAAGATGAAAG
 AACTTGAAGATAACCTCCTCTATAAATTAAGTGCTACAAAAGGCTCATTGGTAGATGACG
 AATCTCTCATTGGTGTACTTCGAACTACCAAGCAGACAGCAGCTGAGGTAAGTGAAAAGT

FIGURE 1 (CONT'D)

TGCATGTGGCTGCAGAACTGAGATCAAGATCAACGCGGCTCAGGAGGAGTTCCGGCCCCG
CAGCCACCCGCGGAAGCATCCTCTACTTCCTCATCACAGAGATGAGCATGGTCAACATCA
TGTATCAGACGTCATTGGCCAGTTCTTGAAGTTATTTGACCAGTCCATGGCCAGATCTG
AAAAGTCAACCTA CTTCAAAGAGAATTACAAATATTATCGAGTACCTGACATATGAAG
TTTTTACATACTCTGTGAGAGGCCTATACGAAAACCAAAATTCTGTGTTGTACTCCTCA
TGACCTTAAAGATTGACCTTCAGAGAGGGACAGTTAAGCACAGAGAGTTTCAAGCTCTCA
TTAAAGGGGGAGCAGCTCTGGACCTGAAAGCCTGTCTCCCAAACCCCTATCGCTGGATCC
TTGACATGACTTGGCTGAATCTTGTGGAGCTGAGTAACTTCCACAATTTGCAGAAATTA
TGAACCAGATATCTCGTAATGAGAAGGGGTGGAAGCTGGTTTGATAAAGATGCTCCAG
AGGAGGAAATTATCCCTGATGGATATAATGATTCACTAGATACCTGCCATAAACTTTTAC
TTATCAGGTCTTGGTGCCAGACCGTACTGTTTTTCAAGCAAGAAAGTATATTGCAGATT
CTTTGGAGGAGAAGTACACAGAACCGATTATCTTAAATCTGGAGAAAACCTTGGGAAGAAA
GTGATACCCGGACACCTCTGATATGCTTCTGTCCATGGGATCTGACCCCAACCAATCAAA
TTGATGCATTGGCCAAGAAAAGCTGAAACTGGAATGTAGAACTATCTCAATGGGGCAAGGAC
AAGAAGTACATGCTCGAAAGCTGATTGAGATGTCAATGCAGCAGGGTGGTTGGGTATTAC
TACAAAATTGCCACCTTGGCCTGGAATTCATGGAAGAATTACTAGAGACGCTAATTACCA
CTGAAGCCAGTGATGATTCTTTCCGAGTATGGATAACTACGGAGCCCCATGATCGATTTTC
CAATTACATTGCTTCAGACCTCTCTCAAATTCACATAATGAGCCACCCCAAGGTGTACGCG
CAGGTTTGAAAAGAACATTTGCTGGAATTAATCAAGACCTTCTGGACATCAGTAATTTAC
CCATGTGGAAGCCGATGCTTTACACAGTAGCATTTTTTCACTCCACTGTGCAGGAGCGAC
GAAAATTTGGCCCTTAGGATGGAATATTCCCTACGAATTCATTTCTGCTGACTTTTCAG
CCAGTGTTGAGTTTATTGAGAATCACCTTGATGAATGCGATATTAAGAAAGGTGTATCAT
GGAATACGGTTCCGTACATGATCGGAGAAGTACAATATGGAGGCAGAGTGACAGATGACT
TTGACAAACGTCTACTTAATTGCTTTGCCAGAGTCTGGTTGAGTGAAGATGTTTGAAC
CGTCATTCTGCTTTTATACTGGATATAAAATCCCCTTATGCAAAACCTTAGACCAGTATT
TTGAATACATCCAGTCACTGCCATCCCTAGATAACCCCTGAAGTCTTTGGGCTTCACCCCTA
ATGCTGATATCACGTATCAGAGTAACTGCTTCTGCTGTTCTTGAAACAATTACCAACA
TTCAACCCAAAGAGAGTGGAGGTGGTGTGGGAGAGACCCGGGAGGCTATTGTTTATAGAT
TATCTGAAGATATGCTGAGTAACTCCCTCCTGATTACATTCTCATGAGGTGAAATCTC
GTTTGATAAAGATGGGCCATCTTAATTCAATGAACATATTTCTTAGACAAGAAATTGACA
GAATGCAAAGAGTCATTTCAATACTCCGCAGTAGCCTGAGTGATCTAAAATTGGCCATTG
AAGGAACAATCATTATGAGTGAGAATCTGAGAGATGCTCTGGACAACATGTATGATGCTC
GTATACCTCAGCTCTGGAAAAGAGTGTCTTGGGATTTCGTCCACACTGGGCTTCTGGTTCA
CTGAACTTTTGGAAAGAAATGCTCAGTTTTCTACGTGGATATTTGAAGGGAGGCCTAATG
TGTTTTGGATGACTGGTTTCTTAATCCCCAAGGCTTCTCACAGCAATGAGGCAAGAAG
TGACCCGTGCCCCAAAGGCTGGGCACTGGACACTGTGACCATCCACAATGAAGTTCTGA
GACAGACCAAGGAGGAGATCACGTCAACCCCTGGGGAAGGTGTGTATATTTATGGGCTCT
ACATGGATGGAGCAGCCTGGGACAGACGGAATGGGAAGCTCATGGAATCCACCCCCAAGG
TACTCTTCACGCAGTTA CCCGTGCTCCACATCTTTGCCATTAACTCCACGGCACCCCAAGG
ACCCCAAGCTGTATGTGTGCTCTATTTACAAGAAACCCAGGCGAACTGATTTGACCTTCA
TCACTGTGGTATATTTTACGAACAGTGTGTCCCCGGATCACTGGATCCTGAGAGGAGTGG
CCCTTTTGTGTGACATCAAGTAA

Gene 470. >ENST00000287152 cDNA sequence

ATGGTGAAGCAGACTATCCAGATATTCGCGAGGGTGAAGCCCCCTGTCCGGAAGCACCAA
CAAGGGATTTATTCCATAGATGAAGATGAAAAATTAATACCTAGCTTGGAATCATCTTA
CCACGTGATTTGGCAGATGGGTTTGTGAATAATAAGCGAGAAAGCTACAAATTTAAATTT
CAAAGAATTTTGTATCAGGATGCAACCAAGAGACCGTTTTTGAAGCAATTGCCAAACCA
GTTGCTGGGAGTGTCTGGCAGGTTACAATGGTACCATCTTTGCATATGGGCAACAGGC
AGCGGGAAGACATTCACTATCACAGGGGGTGCAGAGCGTTACAGTGACAGAGGCATTATC
CCAAGGACACTGTACATATTTTGAACAGTTACAAAGGACAGCAGCAAAATATATACA
ACACACATTTCTATTTGGAATCTACAATGAATGTGGTTATGATCTTTTGGATCCAAGA
CATGAAGCCTCCAGTTTGAAGATTGCGGAAAGTGACAATACTGGAGGATCCTGATCAG
AACATTACCTGAAAACTTGACTCTCCATCAGGCAACCACAGAGGAAGAAGCTCTGAAT
TTGCTTTTTTTTAGGAGACACCAACCGAATGATTGCAGAGACTCCTATGAACCAAGCTTCA

FIGURE 1 (CONT'D)

ACCCGTTCCCACTGCATTTTCACCATTTCATTTGTCAAGCAAGGAACCAGGATCTGCAACT
GTACGACATGCCAACTCCATCTGGTTGACCTGGCTGGTTGAGAGCGAGTTGCAAAGACT
GGAGTAGGGGGCCATCTTCTAACAGAGGCCAAGTATATCAACTTGTCACTACATTACTTA
GAACAGGTTATCATTGCCCTTTTCAGAAAAGCACCGTTTCGCACATTCTTATAGAACTCC
ATGATGACCAGTGTCTTAAGAGACAGTTTGGGAGGGAAGTGCATGACAACTATGATTGCA
ACACTCTCCTTGGAGAAAAGGAATCTTGATGAGTCTATATCAACCTGCAGATTTGCACAG
CGAGTGGCACTCATAAAGAATGAAGCTGTTCTTAATGAAGAAATTAACCCAGATTAGTG
ATTAAACGCCTACAAAAGGAAATCCAGGAAGTGAAGGATGAACTGGCCATGGTCACTGGG
GAGCAGAGGACAGAGGCACTCAGAGAAGCAGAGCTCCTTCAGCTGGAAAACTAATAACA
TCCTTTTTTGAAGACCAGGATTTCAGACAGTAGATTAGAGGTTGGCGCGGATATGCGTAAA
GTTTCATCACTGTTTTTCATCATTTAAAGAACTATTGAATGACAAGAAGATCCTTGAAAAC
AATACAGTCTCCTCTGAAAGCAAAGACCAAGATTGTCAAGAACCATTAAAAGAAGAAGAA
TATAGAAAGCTACGAGATATTCTGAAACAGAGAGATAACGAAATCAGTATCCTTTCTGAA
GTGATGAAGAAA

Gene 471. >ENST00000297170 cDNA sequence

ATGAGAGAGGAAATGTCATTAGGATGCCAGGAGGCTTTTGAAATCTTCAAGAGGGACCAC
GCTGACAGCGTTACCATCGATGACAACAAACAGATTCTGAAACAGAGATTTTCTGAAGCC
AAGGCCCTGGGAGAAAGTATAAATGAAGCAAGAAGTAAATTTGGTCACTGAAGGAAGAA
ATCACCCAGCGGCATATACAGCAAGTAGCCCTAGGAATCTCGGAAAAATGGCCGTGCCT
CTGATGCCAGACCAGCAGGAGGAGAAGCTGCGATCACAACCTGGAGGAAGAAAAGAGAAGG
TATAAAACAATGTTCACTCGCCTGAAAGCCCTGAAGGTGGAGATCGAGCACTTGCAGCTG
CTCATGGACAAAGCCAAGGTGAAGCTACAGAAAGAGTTTGAAGTCTGGTGGGCAGAGGAG
GCCACCAACCTGCAGGTAAATTCTCCAGCAGTGAATTCCTCGATCACACGAAGCCATTT
CTCCAGACATCTGACTCCAGCATGAATGGTCCCACTCCTCTCTAACAAAAGTTCTGGA
GGCTGGGAAGTCCAAGATCAAGGCACTGGCAGATTTCGATGTCTGTGATGTGAATGCCAGG
AAAATCCTGCCCTCGCCTTGCCCCAGTCCACACAGCCAGAAACAGAGCAGCACCAGCACC
CCACTGGAAGACAGCATCCCCAAGAGGCCAGTGTCTGTCATCCCTCTCACCAGGAGACAGC
CAGACGGACTCGGACATCATCGCCTTCATCAAGGCCAGACAGAGCATTCTGCAGAAGCAA
TGT

Gene 472. >ENST00000229913 cDNA sequence

AATGCGACTATCCTCAGCTCCCTCACAGGCCCAGGACTTCAGCATTTTGGGGAAAAGATC
CAGTTTGCTCCACAAGAAAATAGATTTTCTGAAGCCAAGGCCCTGGGAGAAAGTATAAAT
GAAGCAAGAAGTAAATTTGGTCACTGAAGGAAGAAATCACCCAGCGGCATATACAGCAA
GTAGCCCTAGGAATCTCGGAAAAATGGCCGTGCCTCTGATGCCAGACCAGCAGGAGGAG
AAGCTGCGATCACAACCTGGAGGAAGAAAAGAGAAGGTATAAAACAATGTTCACTCGCCTG
AAAGCCCTGAAGGTGGAGATCGAGCACTTGCAGCTGCTCATGGACAAAGCCAAGGTGAAG
CTACAGAAAGAGTTTGAAGTCTGGTGGGCAGAGGAGGCCACCAACCTGCAGGTAAATTCT
CCAGCAGTGAATTCCTCGATCACACGAAGCCATTTCTCCAGACATCTGACTCCAGCAT
GAATGGTCCCACTCCTCTCTAACAAAAGTTCTGGAGGCTGGGAAGTCCAAGATCAAGGC
ACTGGCAGATTTCGATGTCTGTGATGTGAATGCCAGGAAAATCCTGCCCTCGCCTTGCCCC
AGTCCACACAGCCAGAAACAGAGCAGCACCAGCACCCTGGAAGACAGCATCCCCAAG
AGGCCAGTGTCTGTCATCCCTCTCACCAGGAGACAGCCAGACGGACTCGGACATCATCGCC
TTCATCAAGGCCAGACAGAGCATTCTGCAGAAGCAATGT

Gene 473. >ENST00000229903 cDNA sequence

ATGGAACAGCGGTTAGCTGAGTTTTCGGGCGGCGGAAACGGGCGGGTCTGGCGGCCCAA
CCCCCTGCTGCCAGTCAGGGCGCACAAACCCAGGAGAGAAGGCGGAAGCAGCAGCGACT
CTAAAGGCAGCCCAGGCTGGCTAAAGCGGTTCTGGTATGGAAACCTAGGCCCGCGAGT
GCCCCGGGCCAGCCCGGCTAGTTTCAGGAAGCGGCTCAGCCCCAGGGCAGCACATCAGAG
ACACCATGGAACACAGCCATTCTCTGCCGTCTGCTGGGACAGTCTTTCTTGACCAAT
ATCACCTTCTTGAAGGTTCTTCTCTGGTTGGTCTGCTGGGACTGTTTGTGGAAGTGGAA
TTTGGCCTGGCATATTTTGTCTGTCTTGTCTATTGGATGTACGTCGGGACACGAGGC
CCTGAAGAGAAGAAAGAGGGAGAGAAGAGCGCCTACTCTGTGTTCAATCCAGGCTGTGAA
GCCATCCAGGGCACCTGACTGCAGAGCAGTTGGAGCGCGAGTTACAGTTGAGACCCCTG
GCAGGGAGATAGGACCCAGCTGTGCTGTCTATGCAGCTAACCTCTGATGTGGTCTTCTCTCA

FIGURE 1 (CONT'D)

CCATTGGCTATGGATTTGATTTT CAGGTGTATAGGACTAAGGGCAGCTTGCGGGTTAGCTC
TGTGACTGCATAGTTTTTCTACCTTCTTTCCCTGATCTTTTGCTGCCATTTGATCTTTGA
TAGTTTTTGGTGAAACTCTCTAAAATACATTCACTGTGGGTCCGACGCAATTTATAAAAAT
TATGTACTCAAGAAGGGAGACCTGTTTGTTTCATTTCTCATCTGTTTGGGAGATGATTTT
AGAGCACTAGAAAGGCACTGGGGAGATTCTCAGCTTAAAACATCCAGCAGTTTGAAGTAT
GATTAGGTACATCAGGGCTGCATTGTCAATGTTCTCTTAAGTCTTTTAACATTTATAGC
AATTTTTTTTTTCCCGGAGAGTTTAGGTTGCAAGTTTGGGTTTCTTGTTTGTGTTTTGTT
TTGCTTCTGCTTTAATTCTTTAATTTT CAGTCATTACTGGTATTGAAAAATAAAATATC
TTTAAAACATCTCCTCTTCAGAAATAGGTCCCTCTTCATTGCCCATCACCATCTTCCACT
CTCCTATTATTTTGGCACTACTCAGTAAAGGAAGGTAGGAAGAGACAAACGCCTAAGTGC
AGGTGTGGGGAGGGATTTCACAAGTGTTTATTAACGGCCAGTTCAGCAAGAAGTGTTGAG
TGTGTACAAAGGGGAGGGCTGGAAGTGTTAACTCCAGACCCGTTGGCTGCTTGAGTTGTT
TCTTATATTCTAAAGCAGCAGTCCCTAACCTTTTGGCACCCAGGGACCAGTTTGTGGAA
CACAGTTTTTCCATGGACGGGGTGGTGGTGGAGGATGAAACTTCACCTCAGATCATCAG
GCATTAGAGTCTCATAAGGAGCACGCAACCTAGATCCCTCGCATGCGCAGTTCACAATAC
GGTTCTAAGGGCTTTAGAGTAAGCAGCTTTTTCACCTGTGGGCCTCTGGTGAGAAATTCT
GTAAATTGTGATAATCAGGCTGGATTTTAATGCTGCTTTTCCAGTACAATGTTAGAGTTT
GGGTTCAATTAATAATTAGGCAAACTCCATTGGGTTAGGGCTTCTCTCATTCCATTTTGTG
GCTAACCTTACTGTGTTTTCAGCCCTTGCTGAAAATTCTTCTGATATGTGTTGCCCTTCCT
CACAGCCCTTTGGCCATTGGGAGTTTGGCTGTCCCTCAGAGCCATCCGGTCAAGCAGATG
GTCTGTTCTATCTCACAGAAAAGTCTTTTCTTCCATGAGTTCTGTCTGAACTGAACATGT
AAAAAGTATGGGAAACAGATGAATCCCTATTAAACATGAAGTTTGGATTGTATTTAAGAT
Gene 474. >ENST00000229900 cDNA sequence
ATGGCCGGCGCCCCCGGCCCGCTGCGCCTTGCGCTGCTGCTCGGGATGGTGGGCAGG
GCCGGCCCCCGCCCCCAGGGTGCCACTGTGTCCCTCTGGGAGACGGTGCGAGAAATGGCGA
GAATACCGACGCCAGTGCCAGCGCTCCCTGACTGAGGATCCACCTCCTGCCACAGACTTG
TTCTGCAACCGGACCTTCGATGAATACGCCTGCTGGCCAGATGGGGAGCCAGGCTCGTTC
GTGAATGTCAGCTGCCCCCTGGTACCTGCCCTGGGCCAGCAGTGTGCCCGAGGGCCACGTG
TACCGGTTCTGCACAGCTGAAGGCCTCTGGCTGCAGAAGGACAACTCCAGCCTGCCCTGG
AGGGACTTGTGCGAGTGCGAGGAGTCCAAGCGAGGGGAAAGAAGCTCCCCGGAGGAGCAG
CTCCTGTTCTCTACATCATCTACACGGTGGGCTACGCACTCTCCTTCTCTGCTCTGGTT
ATCGCCTCTGCGATCCTCCTCGGCTTCAGACACCTGCACTGCACCAGGAACATACATCCAC
CTGAACCTGTTTGCATCCTTCATCCTGCGAGCATTGTCCGTCTTCATCAAGGACGCAGCC
CTGAAGTGGATGTATAGCACAGCCGCCCAGCAGCACCAGTGGGATGGGCTCCTCTCCTAC
CAGGACTCTCTGAGCTGCCGCCTGGTGTCTCTGCTCATGCAGTACTGTGTGGCGGCCAAT
TACTACTGGCTCTTGGTGGAGGGCGTGTACCTGTACACACTGCTGGCCTTCTCGGTCTTA
TCTGAGCAATGGATCTTCAGGCTCTACGTGAGCATAGGCTGGGGTGTTCCTCTGCTGTTT
GTTGTCCCCTGGGGCATTGTCAAGTACCTCTATGAGGACGAGGGCTGCTGGACCAGGAAC
TCCAACATGAACTACTGGCTCATTATCCGGCTGCCATTCTCTTTGCCATTGGGGTGAAC
TTCTCATCTTTGTTTGGGTCTATCTGCATCGTGGTATCCAACTGAAGGCCAATCTCATG
TGCAAGACAGACATCAAATGCAGACTTGCCAAGTCCACGCTGACACTCATCCCCCTGCTG
GGGACTCATGAGGTCTCTTTGCCTTTGTGATGGACGAGCACGCCCGGGGGACCTGCGC
TTCATCAAGCTGTTTACAGAGCTCTCCTTCACCTCCTTCAGGGGCTGATGGTGGCCATA
TTATACTGCTTTGTCAACAATGAGGTCCAGCTGGAATTTGGAAGAGCTGGGAGCGCTGG
CGGCTTGAGCACTTGACATCCAGAGGGACAGCAGCATGAAGCCCTCAAGTGTCCACC
AGCAGCCTGAGCAGTGGAGCCACGGCGGGCAGCAGCATGTACACAGCCACTTGCCAGGCC
TCCTGCAGCTGAGACTCCAGCGCCTGCCCTCCCTGGGGTCTTGCTGCAGGCCGGGTGGC
CAATCCAGGTGGGAGAGACACTCCAGGGACAAGGAAGGAAGGGACACACACACACACA
CACACACACACACACACACACATACCTGCTTTCCCTCCCCAAACCCATCAGACAG
GTAAATGGGCAGTGCCTCCTGGGACCATGGACACATTTTCTCCTAGGAGAAGCAGCCTCC
TAATTTGATCACAGTGGCGAGAGGAGAGGAAAAACGATCGCTGTGAAAATGAGGAGGATT
GCTTCTTGTGAAACCACAGGCCCTTGGGGTTCCCCCAGACAGAGCCGCAAATCAACCCCA
GACTCAAACCTCAAGGTCAACGGCTTATTAGTGAACCTGGGGCTTGCAAGAGGAGGTGGTT
CTGAAAGTGGCTCTTCTAACCTCAGCCAAACACAGAGCGGGAGTGACGGGAGCCTCCTCT

FIGURE 1 (CONT'D)

GCTTGCACTCACTTGGGGTCACCACCTCCCTGTCTTCTCTCAAAGGGAAGCTGTTTGTG
TGTCTGGGTTGCTTATTTCCCTCATCTTGCCCCCTCATCTCACTGCCAGTTTCTTTTGG
AGGGGCTTTGTTTGGGCCACTGCCAGCAGCTGTTTCTGGAAATGGCTGTAGGTGGTGTG
AGAAAGAATGAGCATTGAGACGGTGTCTGCTTCTCCTCCAGGTATTTGAGTTGTTTGGT
GCCTGCCTCTGCCATGCCAGAGAATCAGGGCAGGCTTGCCACCGGGGAACCCAGCCCTG
GGGTATGAGCTGCCAAGTCTATTTTAAAGACGCTCAAGAATCCTCTGGGGTTTCACTAGG
GACACGTTAGGAATGTCCAGACTGTGGGTGTAGATTACCTGCCACTTCAGGAGCCAGA
GGGCCAAGAGAGACATTGCCTCCACCTCTCCTTGAAATACTTTATCTGTGACCACACGC
TGTCTCTTGAGAATTTGGATACTCTCTAGCTTTAGGGGACCATGAAGAGACTCTCTTA
GGGAAACCAATAGTCCCATCAGCACCATGGAGGCAGGCTCCCCCTGCCTTTGAAATTCC
CCCACTTGGGAGCTTGTATATACTTCACTCACTTTTCTTTATTGCTGTGAATAGTCTGTG
TGCACAATGGGCAATTCTGACTTCTCCCATCTAGTGGAATGAGCGAAATCATGTTGTA
GTGATGTTGTTTGGGAGAGTGAGTAGTAATTGATTTGACCACTCACACTTGGAGCTAA
TTAAGGTTTGCCTGCCTGCAGCCTCCCCACAAATAATGAACAGCAGAAAGACTGGACG
GGGAAACCTATCAATCCTGCCCCCAGCCATGGTGAGGAAGCCCAAGCCATGGTGACACA
CAGCAGCACTGCAGATAGCCAGACACATGGCTATCCTAGAGAGGCTGGCAAGGAGTTCGT
GGCTGCAAAAGAAGTTTCTGGAGCAAGAGAGAGCTCGCTCTTGGGAGTCAGGACCTCCGG
GGAGAGCAGAGGGTTCCGACGGATTCTTTATGAGTCAGTCTCTCTCTCCCTTTTAAATG
GTGGGAACCTCCCCAAACCTTTCCCAGACACATTCTCCTGTGCCCCCTCAGAGAGGCA
TGTGATGTGCAAGGAAATAATAGGATATAAAACACATCAAGTAGAAAATTTCTTATACT
TC

Gene 475. >ENST00000297153 cDNA sequence

GGAGAGCGAGAGACCGAACGAGGAGACGCGAGGAGGAGGGAGGGAAGAGAGGGAGGGA
GGCGGGAGGAGCGCGGAATGAAAAGCTCGGAGGGGCGAAAAGCAGCACAGCAAAGCCCA
AGTTGCTGAGCGAGCGGAGCGCTCCCGCGGCCCGGAGCCGAGCGGCCCGCGCCCCGGA
GCCCGGCCCGGCCCGCCCCGCTCTGGGCCCCCGCAGGCCAAGGCCCGCGGGCGGGGGCGG
GGACGACCAACTTGGGGCGCGGCGTAGCCCCGCTCTCCCGAGAGCTCGGAGCCCGGGAGG
GCTACGGCCCGCGGCCAGACGGCGGGAGAGGAGCGCGGCGAGCGGAGGCGGCGAGCGGCGC
CCGCGCCCGCAGCCCCGGCCTGGGCGAGAGCGCGAATATTTTTCAAAGACTCAAACCTTTC
CTCCTTTCCCCGTTTCTGGGGCCCTTCTTGCCCTGGAATTGCTCTCCAGATTCCCGCGGG
GCGCCGGGCTGCTATTCTTCCCCCGGGTTTATCGGCGGCTCGGCTAACTTCACGGACCCG
GGGACCCGCGGCGCTCTGTCCTCGGCCGAACCCAGCCCCGCGCTGCTCCCCGGATCAGGAG
GGCCGGGCCCGGGGCTGCTTCGCCGCCCGGAGTGCTTTCAGCCCCGGCCCCCTGGAGTCGG
GCCGCTGAGCCACGGCAGCGGCCCGCAGGACTGGAAACAGCAGATTGATTAACTCGAGCG
GAGCCCCGGCCTCCCCGACTCCGCTCCGCTGAGGGGCGGCCCCAGTGCGGGGAAACGACA
AGTTTGTGAGTCGTCCGTGGCCTGTTGGATCGAAGCGCCGCTCCGCCCGCGAGAGGTCC
CCGGCGCCTAGCATCCCGCGCGGACGGCCCTGGGTACCCGGGGCGGCTCGGCGGCGGGC
TCCTCGGGTCGGGGCGCTGGCTGCTGTGCCGGGCGCGCCGAGGCACCCGGGGCTGGGCCA
GCGCCCCCTGCGTCCCCACGCGGGCAGCGGCCCGCCGGAGGAGAAACACGGGTGCGCGC
CACCTCCGCTCTTCAGTCTCCTGGTCTTCGTGCGCGCTCTCTCTCTCACCTCTCAGGGA
AAGGGGGGGACATAGGGGCGTCGCGGGGCCCCGGCGAATGCGCCCCCGCGCCTCTCGG
GCTGCGCCGCTCGCGGGGATGAAGCACCGGCCGTGAAGATGGAGGTGACCTGCCTTCTA
CTTCTGGCGCTGATCCCTTCCACTGCCGGGGAAGAGGAGTCTACGCTCCAGCCAGGCG
CAGATCGTGATGCGGGCCAGGCATGTGTGGTGAAAGAGGACAATATCAGCGAGCGTGTG
TACACCATCCGGGAGGGGGACACCTCATGCTGCACTGCCTTGTAACAGGGCACCTTCGA
CCCAGGTACGGTGGACCAAGACGGCAGGTAGCGCTCGGACAAGTTCCAGGAGACATCG
GTGTTCAACGAGACGCTGCGCATCGAGCGTATTGCACGCACGAGGGCGGCGGCTACTAC
TGCAAGGCTGAGAACGGCGTGGGGGTGCCGGCCATCAAGTCCATCCGCGTGGACGTGCAG
TACCTGGATGAGCCAATGCTGACGGTGCACCAGACGGTGAGCGATGTGCGAGGCAACTTC
TACCAGGAGAAGACGGTGTCTCTGCGCTGTACTGTCAACTCCAACCCGCTGCCCGCTTC
ATCTGGAAGCGGGGTTCCGATACCTATCCACAGCCAGGACAATGGGGTTGACATCTAT
GAGCCCCCTTACACTCAGGGGGAGACCAAGGTCTGAAGCTGAAGAACCTGCGGCCCCAG
GACTATGCCAGCTACACCTGCCAGGTGTCTGTGCGTAACGTGTGCGGCATCCAGACAAG
GCCATCACCTTCCGGCTACCAACACCACGGCACCACCAGCCCTGAAGCTGTCTGTGAAC

FIGURE 1 (CONT'D)

GAAACTCTGGTGGTGAAACCTGGGGAGAATGTGACGGTGCAGTGTCTGCTGACAGGCGGT
GATCCCCCTCCCCAGCTGCAGTGGTCCCATGGGCCTGGCCCACTGCCCTGGGTGCTCTG
GCCAGGGTGGCACCTCAGCATCCCTTCAGTGCAGGCCCGGGA CTCTGGCTACTACAAC
TGCACAGCCACCAACAATGTGGGCAACCTGCCAAGAAGACTGTCAACCTGCTGGTGCGA
TCCATGAAGAACGCTACATTCCAGATCACTCCTGACGTGATCAAAGAGAGTGAGAACATC
CAGCTGGGCCAGGACCTGAAGCTATCGTGCCACGTGGATGCAGTGCCCCAGGAGAAGGTG
ACCTACCAGTGGTTCAAGAATGGCAAGCCGGCACGCATGTCCAAGCGGCTGCTGGTGACC
CGCAATGATCCTGAGCTGCCCCGAGTCAACAGCAGCCTAGAGCTCATTGACCTGCACTTC
AGTGACTATGGCACCTACCTGTGCATGGCTTCTTTCCAGGGGCA CCCGTGCCCCGACCTC
AGCGTCGAGGTCAACATCTCCTCTGAGACAGTGCCGCCCACCATCAGTGTGCCAAGGGT
AGGGCCGTGGTGACCGTGC GCGAGGGATCGCCTGCCGAGCTGCAATGCGAGGTGCGGGGC
AAGCCGCGGCCGCCAGTGCTCTGGTCCCGCGTGGACAAGGAGGCTGCACTGCTGCCCTCG
GGGTGCCCCCTGGAGGAGACTCCGGACGGGAAGCTGCGGCTGGAGCGAGTGAGCCGAGAC
ATGAGCGGGACCTACCGCTGCCAGACGGCCCCGCTATAATGGCTTCAACGTGCGCCCCCGT
GAGGCCCAGGTGCAGCTGAACGTGCAGTTCCCGCCGGAGGTGGAGCCCAGTTCCAGGAC
GTGCGCCAGGCGCTGGGCCGGCCCCGTGCTCCTGCGCTGCTCGCTGCTGCGAGGCAGCCCC
CAGCGCATCGCCTCGGCTGTGTGGCGTTTCAAAGGGCAGCTGCTGCCGCCGCCGCTGTT
GTTCCCGCCGCCGCCGAGGCGCCGGATCACGCGGAGCTGCGCCTCGACGCCGTAACTCGC
GACAGCAGCGGCAGCTACGAGTGACGCTCTCCAACGATGTGGGCTCGGCTGCCTGCCTC
TTCCAGGTCTCCGCCAAAGCCTACAGCCCCGAGTTTTTACTTCGACACCCCCAACCCACC
CGCAGCCACAAGCTGTCCAAGAACTACTCCTACGTGCTGCAGTGGACTCAGAGGGAGCCC
GACGCTGTGACCCCTGTGCTCAACTACAGACTCAGCATCCGCCAGTTGAACCAGCACAAT
GCGGTGGTCAAGGCCATCCCGGTCCGGCGTGTGGAGAAGGGGCAGCTGCTGGAGTACATC
CTGACCGATCTCCGTGTGCCCCACAGCTATGAGGTCCGCTCACACCCTATACCACCTTC
GGGGCTGGTGACATGGCCTCCCGCATCATCCACTACACAGAGCAACAACCTGCCACTTT
GAGGATGAGAAGATCTGTGGCTATACCCAGGACCTGACAGACAACTTTGACTGGACGCGG
CAGAATGCCCTCACCCAGAACCCCAAACGCTCCCCCAACACTGGTCCCCCACCGACATA
AGTGGCACCCCTGAGGGCTACTACATGTTTCATCGAGACATCGAGGCCTCGGGAGCTGGGG
GACCGTGCAAGGTTAGTGAGTCCCCTCTACAATGCCAGCGCCAAGTTCTACTGTGTCTCC
TTCTTTTACCACATGTACGGGAACACATCGGCTCCCTCAACCTCCTGGTGCGGTCCCCGG
AACAAAGGGGCTCTGGACACGCACGCCTGGTCTCTCAGTGGCAATAAGGGCAATGTGTGG
CAGCAGGCCCATGTGCCCATCAGCCCCAGTGGGCCCTTCCAGATTATTTTTGAGGGGGTT
CGAGGCCCGGGCTACCTGGGGGATATTGCCATAGATGACGTCACTGAAGAAGGGGGAG
TGTCCCCGGAAGCAGACGGATCCCAATAAAGTGGTGGTATGCCGGGCAGTGGAGCCCCC
TGCCAGTCCAGCCCACAGCTGTGGGGGCCCATGGCCATCTTCCTCTTGGCGTTGCAGAGA
TGATGAGAGCTGTGTGGCCACCCCCCAACCTTGCCCCCGGCACACCAAAGTGTCCACAT
TGTACCAAAGACTGACCCCCGCCAGCTGGGGTGCCCAGGGGCAGGGCCGGCCCCGAGGG
AGGGGGCCTGCATTGGCTGCAAGGATGAGCAGAGAACAAGGACAGAGGCCAGGCACTGAG
GCCCTGGAGACAGCTGTTCCACTTGCACACACGCACACACTCATGCTCACACACACAGAG
ATATATTAAAGCACAAGTTTTCTATCTGACCTGCCAGCACCTTCTTTACTGCAAAGACAGG
GGACTTGCCCTGAATGGCATCCGCCAACCCAGGGACCTCGGCGCAACATAGGCCTTGTCTC
TGCTGCACTCGTGGTGTGCTTCTGACTTTACCCTGTCCCCTAAGTCAAGGCCGAACCTCCA
GCCTGGTGGCTTTGCCAGAAGGGAGCCAGAAGTGGGGCAGACATGGAGCCCCCTCCCTTGG
TCAGACTCTGGGACTCCTGAGATGGGAGAGGCAGGGATCAGAGGACGAACAGGTGGGACT
TTGCGAGCTCTGTGACTGTCCCACGTCCAGGAGACAAGGAAGGTAGGGCACCTGCTGCAC
ACGATTCTGTCCAGAGTGAGCACTGGATGGTGGAGACCATAGGTCACCCCAGATTCTTTG
ACCTATTTCTGGGACACCATATTTCCCTCCTCAGTGTGCACCTTTGAAGGGACCCAGCA
CAGGGTCTTGGGCCTGGGCAGTCTGAAGACTGATAACTTCCCCACTCCACCTACAAGCA
GTGGGACTCCTGAGAACACGGTTCTCTCCTAGCCTCAGCCCCCAGCTGGGTCTCAGAGGA
GCTGGGGGAGCGGTGGCCAGCCCATTTTCTGGGGTGAGGCTTGACTTGGAGAAAGGCAGA
AGAGACGTCCCGCTTCTGTGATTTGGTGCCCCCATATCAGACAATGAATTTGGAAGTGGA
GAGGGGCCTTCATTTCTTATCTACTTGGCATGAAAGGGTGCCCTGGATAGGAGGGTGTGT
ACAGGGCAAATGCCAAAAGCACTGTCTAGTTGAAAGTTCCCTTCTCCACCCAGGGGCA
GTGAAGGAGGAGGGCTTATAGAGCTGGGATTTGGTGGAGGGAGCAGGTGCCAGTCCCCCTC

FIGURE 1 (CONT'D)

ACTCTCTGGGAGCTGTGAAAGGGATCCCTGTCCTTGGGTCTGGGTAGGCACCTGAGAT
 TGACATGATGGGATCTAGATCTTTCCTCCTTGACATCACCTGAGCCCCACCTAGCCATC
 CATGGGAGAGAGAAGGCCAGCCCCCTCTAGAATGACTCTTTAGGCATGCGTGCATATGT
 GTGTATGTGTTTGTGCCCGTCTGTGTCTAGGTACCACCGTGGGTACATTGTTGGGCAGGA
 GTGTGTGCAAACACAGGTCTGTGTGTGCAATCTCACATATCTGCCTGTGAGACTGGATTG
 AGACCCATTGTTTTCTATGAATGTCCGTGTACGTGAGCGTGTGTGTCCACCTTCCTGAGT
 GATGTGTTGCGTTGTAGGGTGTGGCTGAATAGACTCTGTCCAGCCCTGTTCTGTAGTCT
 CAAGCTGCCTGCGATGGCCTGAAATTCCACCTTTCATCCCCTATGGATGACGGAGAGCTT
 ACAGATGACCCTATTGAATGCAAGCACCTTTGGTGAGGAGCATCACAGGGCTCCTTCTGG
 AGCATTGTTGGTGGGGACAGCTGCAGAGAAGAGGCCTGGAAGTCTGGGCAGCACTGCAGTGCC
 AGGAGGCAGGCGGGGAACCGAGGCAAAGGCTGCCCATCTCCCCCTGCCAGGCCTGTGTGA
 TCATTATCACCAACAGCTGGTGGGTGGCCGGGCCAGGATGCAGCGGGGCCTTCTGATGCC
 CAATCAGCACGGCTGCCTTCCTGACCCAGTCAAGGCCTCTGTCTGAAATGAGTCGCTCCA
 GGTTCCTCAGCATACACTTCCATCGCGTCTGTGCGGTATTGTTCTTAAGTGTCCCATCTG
 TGCAGAGTCCATTGCCCCAACTAGACTGTGAGCTCCTCCTCTGAGCCTTCCAAGTCCCCC
 CTCCACCTTCGCCACCTCCCGCTCGTGCCAGCACAAGTGAGCCTGGTGTGAAACCACT
 CCATTGCCCCGGTGAATGATTCTGTAATCAGTGGTTCTTGGCCTTGCCTGCAGAATAGA
 ACCACCAGAGTCTTTTAAAAAGTATTGCTGCTTGGTTCCACCTCAGAGGTTCTGAGTTA
 ATTGGACTGGAGCGCAGTCGGACATCAAGAAATGTTGAAAAGCTCCTTGGGTTCTCCTGA
 CAGCAGGAACCACTGGCCTGGCACCACTGGGTGCTTCCTCTGTGCCCTCGCTGGGGTAG
 GCATTGGAGCACCAGAGATGAATAGCCCCAAGTGCTCCCTCTTTGGGGTTCCCAAGGCAC
 CCTGTGCCTGCTTCCCTCAGAGGACCTTCCAATCCATTTGCCCCGCAACCCTGGCTGCTC
 CGACAGGGGAGACTTGTCTCCCTTGTTCCCTCAGGATCCATAGAGTGGACAGTAAAGGT
 GCTCAGTACATGTTGGCTGAGCTGAACTGCATACATGTGGCCCCAGGTTCTGGTCTTT
 ATGGACGAAGGGCACAAGGTGGAGGGGGGATGGGGGGATGCTGCTGGAGGTCTCAGTGGG
 TGCAGACAGCCCTGCCTTGAGGATGGCTTGACCTGGGATTGACAAAATGTGTCTGCTGAA
 ATGCTGAGGTCCCCACGTGTGAATGGGTGAGGCTGATGTGGATGTCTGTGTGTGCCAGCA
 GGTGGGTGGGGGATGTGGGTGTGAGTGTATGCCAGTGGGCACTGTAAATGTCTAGGCATG
 TGCTGGTCTCTGTGTGTTTGTGTGTTCTCAGCAGGAATGAGTGTCTTTGTGTATCACT
 GGTGACTTGTGAGTGTCTGTGTCTGTGTGTGCCTGTGAGCCAGCATCTCTGTATCAGTGT
 TGCTCATGCTGTGTCTTTGTGCGCCATGGTGTGTGAGTGTCTGTGTGTTGATGGGTGGCC
 CATGAGTGACCCCCGCCAGGGGAGACCAGGCTGGCTGGATCCAGCACATCTCCCCAGTGG
 CAGCCTCGCCCTCTGGGTGAGGGTGAAGGAGCATTTTGTGGCCTTAAACGGGGTGTTC
 AGGGTCAGCCCTCAGGGTGTGGGGCCCTTCCATCCCTTGTCCCCTTCAGGTTGGTGAAA
 AGGACTCCGGGGGCCAGGTGCTGTATAGCAGCTTATGGAAGTCTCAGCTGGGCTATCCTG
 CCCTTGGGAGCACAGACAGGCTCCTAGGGTGTGAGTGAAGCCTGAAGACCAAGCCCCCT
 CCTCCTGGAATGCTCCTTCCACCCCTACCTCTCAGAGATGGGCCTGACACCTCTTTCTCA
 TTCAATCTCCTTTTCCCTGTGCTCTGGGAAAGCCCTGGCTCAGGCTGTGAGTGTGAGGA
 TGGACCTCAAAAGTTTGATCCCTCGTGAGATGAAGAAGCTGAAGCCAGAGTGGGGAA
 GGGGAGTGGCCCAAGGTACACAGCTAGTTTGAAGTGAAGCCAGTCTTGGGAGAGCCAAGT
 ACTACAGCCCTGGGGGTGTACACCGCTTGTCACTGCCCCTGAGGTCTCCTGCCAAACAA
 CTGCAGGGAGTTTGGCTAACAGTCCTGTGTCCAGGGTGCCGGTGGGGATGTTATAGATGT
 TGCTGGGATCCTGCCCTCGGCTCCAAATTCTGGCCTCTCATCCAGGCTGCAGACCTTTC
 TGCCCCATGACAGGCCTGGGTGCCACACAGAGGTGGCCACCCTCCACACAGTGTCTGC
 AGCTGCTGCCCTTCTCCCAGGCCCCCAGACAGAAGAGACCCTGTTTCCCCTCCTCTCCCC
 TGTGACTTCACAAGAGCTTGGGCTAGGAGTGAAGGTGAGCATGTTCTCATGTGCTCATCC
 TCTTGGTTTCCCCAAAGACCGGGAGGGTCACGGATGGGGCGTGCAGAATCCTTGTGTTTT
 TTCTCGCTGGGCAGCTTGAGGGGCTGGGGAGTATTCCAGGGTCTTTGCTCTGGAGAGTC
 CCTGCAGAGCCACTGGCTGAGGTGGGTTGAGGTTGAGCGGAGTCTCCATGCTTCCAA
 AGGCCGGGAAGCACCCGCCTCTCTATCGAGTCAGTGTGTGCGTGTGTGTGTGTGTTGGGGCAGAAGG
 ACCACTCTTTCTGGGGATCCCTTGACCTTATAACTAGAAGGGACCTTAGGGAGCATCT
 AAGCTGGTGCCCCATTGTACAGGCGAGGTCCAGAGGGATGGCATCTGCCACCCCAACC
 CTTGCCCTCTTGTGCTGCACTCATTTCCAGGGACCTCCTAGGATAGGACTGCCCTC

FIGURE 1 (CONT'D)

CTTCCTGGCCCCCTCCCGCCATCCTCCAGCCACCCACATAATCACCATCTCAGCCCAAC
TCTGGTGGCCCTCTAGGTCTCCATGCATTCTTCTGCCCCTAGAGTAGCCAGCTCACCAAG
GCCTTTATCCCCAGCCAGGAGAAGGGTCAGGGAGGGAAGGGGCTGCACCAGCCCTGAGA
CCTCAAAGACTTGGGAGAAAAGCCAAAACCTCTCATGCCAGGCCACATGTCTGACCAC
CCCAGCCCACCCGCGACCAAGGTAAAAGCACAAACAGGAGACCCCTTATTAATGGGTGA
AATGATTGGGGTTGTTTTTTTAGTCACACAGCCCCATCCTCACCCCTTTGCCTTGCTGTC
TGTCTCCACCCAGCCTCTGTTCCCCATTTGCCTCTCTTTCACCTCCAAGCCCCAAATG
TAACCTCTAGTTGCGGACGCGGTTGTTCTATCAATAAAGCTGCAGTGTTCTAGCGCTCAG
CGT

Gene 476. >ENST00000229875 cDNA sequence

ATGGCCTCCCGCATCATCCACTACACAGAGCCCATCAACTCTCCGAACCTTTAGACAAC
ACCTGCCACTTTGAGGATGAGAAGATCTGTGGCTATACCCAGGACCTGACAGACAACCTTT
GACTGGACGCGGCAGAATGCCCTCACCCAGAACCCCAAACGCTCCCCAACACTGGTCCC
CCCACCGACATAAGTGGCACCCCTGAGGGCTACTACATGTTTCATCGAGACATCGAGGCCT
CGGGAGCTGGGGGACCGTGCAAGGTTAGTGAGTCCCCTCTACAATGCCAGCGCCAAGTTC
TACTGTGTCTCCTTCTTCTACCACATGTACGGGAAACACATCGGCTCCCTCAACCTCCTG
GTGCGGTCCCGGAACAAAGGGGCTCTGGACACGCACGCCTGGTCTCTCAGTGGCAATAAG
GGCAATGTGTGGCAGCAGGCCCATGTGCCCATCAGCCCCAGTGGGCCCTTCCAGATTATT
TTTGAGGGGGTTTCGAGGCCCGGGCTACCTGGGGGATATTGCCATAGATGACGTCAACTG
AAGAAGGGGGAGTGTCCCCGGAAGCAGACGGATCCCAATAAAGGTGCAAGACGGGAAGGA
GGTGGGGGAGCTGAATCTGGAGGGAGCTGTGCGTGGCGGGGGTTCTGTCTGTTGAGGGA
GGGTGTTTGGGTCTGAATAGGGGTTTCAAGATGTCTGAGTGATGGGAATCATGTGGCTCTG
ACTGTGTGA

Gene 477. >ENST00000248553 cDNA sequence

CTCAAACACCGCCTGCTAAAAATACCCGACTGGAGGAGCATAAAAGCGCAGCCGAGCCCA
GCGCCCCGCACTTTTCTGAGCAGACGTCCAGAGCAGAGTCAGCCAGCATGACCGAGCGCC
GCGTCCCCCTTCTCGCTCCTGCGGGGCCCCAGCTGGGACCCCTTCGCGACTGGTACCCGC
ATAGCCGCCTCTTCGACCAGGCCTTCGGGCTGCCCGGGCTGCCGGAGGAGTGGTTCGAGT
GGTTAGGCGGCAGCAGCTGGCCAGGCTACGTGCGCCCCCTGCCCCCGCGCCATCGAGA
GCCCCGAGTGGCCGCGCCCGCCTACAGCCGCGCGCTCAGCCGGCAACTCAGCAGCGGGG
TCTCGGAGATCCGGCACTGCGGACCGCTGGCGCGTGTCCCTGGATGTCAACCACTTCG
CCCCGGACGAGCTGACGGTCAAGACCAAGGATGGCGTGGTGGAGATCACCGGCAAGCAG
AGGAGCGGCAGGACGAGCATGGCTACATCTCCCGGTGCTTCACGCGGAAATACACGCTGC
CCCCCGGTGTGGACCCCAAGTTTCTCCTCCTCCTGTCCCCTGAGGGCACACTGACCG
TGGAGGCCCCCATGCCCAGCTAGCCACGCAGTCCAACGAGATCACCATCCCAGTCACT
TCGAGTCGCGGGCCAGCTTGGGGGCCCAGAAGCTGCAAAATCCGATGAGACTGCCGCCA
AGTAAAGCCTTAGCCCGGATGCCACCCCTGCTGCCGCCACTGGCTGTGCCTCCCCCGCC
ACCTGTGTGTTCTTTTGATACATTTATCTTCTGTTTTTCTCAAATAAAGTTCAAAGCAAC
CACCTGT

Gene 478. >ENST00000330572 cDNA sequence

TCAGCCCCTGGGGTAGATCCAGCCCCCGCATAGGTCTTTTGTGGAAAAGGAAGAGG
GAGTGGTGGGACGAATCTGAGGAGTCTTGGAGGAGGAGCCACGGAAGGTGCTCGCCCCCT
GAGCCTGAGGAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGA
CGGCGAGTGTGCTCGTGTCTCCCTGAGCACCACGAGGCCTTCAACAGGCTGCTTGAGGAT
CCTGTCAATAAAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAG

Gene 479. >ENST00000327285 cDNA sequence

GTGCGCCTCCCGTCGCCCAAGATGCCGAAAGGAAAGGAGGCCAAGGGGAAGAAGTTGGCT
CTGGCCCCTGCTTTTGTGAAGAAGCAGGAGGCCAAGAAAGTGGTGAATCCCCTGTTTGAG
AAAAGGCCTAAGAATTTTGGCATTGGACAGGACATCCAGCCCCAAAGAGACCTCACCTGC
TTTGTGAAATGGCCCCGCTATATCAGGTTGCAATGGCAGAGATCCATACTCTATAAGCAG
CTGAAAGTGCCTCCTGCGATTAAACAGTTTACCCAGGCCCTGGAAGGCCAAACAGCTACT
CAGCTGCTTAAGCTGGCCCAAAATACAGACCAGAGACAAAGCAAGAGAAGAAGTGGAGG
CTGTTGGCCCAGGCAGAGTTGGGCAAAGGGGACCTCCCATGAAGAGACTACCTGTCTTT
CGAGCAGGAGTTAACACCGTCACCACTTTGTGGATAACAAGAAAGCTCCGCTGGTGGTG

FIGURE 1 (CONT'D)

ACTACACACGACATGGATCCATTGAGCTGACTGTTTTCTGCCTGTCCTGTGT CATAAA
ATGGGGGCCACTTGCTGCATTATCAAGGGGAAGGCAAGACTGGGATGTCTAGTTCACAGG
AAGACCTACACCACTGTGCACTTCACACAGGTTAACTCAGAAGACAAAGGAGCTTTGGCT
AAGCTGGTGAAGCTATCGGGACCAATTACAATGCCAGATACGATGAGACCCACTGT CAC
TGGGACGGCAATGTCTGGGTCCCAAGTCTGTGGCTCACATTGCCAAGCTCGAAAAGGCA
AAGGCTAAAGAACTTGCCACTAACTGGGTTAA

Gene 480. >ENST00000285792 cDNA sequence

CAGCTCTACATCCTGTAGATTCTCACACCCAGGGCCTCCTTCGGCCTCTTCTCAGGGGAG
TCTCAGAGCAGGAGCCTCTCTCCCTTGCCAGTGAAAGTCATTCTCCCTCTCCCATCCA
CCTCACCCGCAGCCACAATCCTGAGACTTTCCCCGGGAGGCACACTTCTCCTCGCTGCC
CTGCTGCTCTCAGGGAAACCTGTCTGCTTCTCAGACTGACATCTGCTCTCTAATCACA
GAGGATCCTGTCAATTAAGACTCCTGGCCTGGGACAAAGATCTGAGGGTGTCTGGACAAG
TATCTCCTGGCTATGGTCATAGCGTATTTTCAGCCGGGCCGGCCTCCCTCCTGGCAATAC
CAACGCATTCAATTTCTTCTGGCTCTCTATCTGGCCAATGACATGGAGGAGGACGACGAG
GCCCCCAAACAAACATCTTCTACTTCTGTACGAGGAGACCCGCTCTCATATACCTTG
CTCAGTGAGCTTTGGTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAACTGC
TCTCAGATAGCCTTGTTCCGGAAGTATCGGTTCCACTTCTTTTGTTCCATGCGCTGCAGG
GCTTGGGTTTTCCCTGGAGGAGTTGGAAGAGATCCAGGCTTATGACCAGAGCACTGGGTG
TGGGCGCGAGATCGCGCCACCTTTCTAGAGCTCCAGGGACCGTGAGGCCTGAGGTCA
TCGGCCTGAGAGAAGAACCAGGACCCAGGGGAGATGTGGATTTTCAGCAGGAACCTTTAT
TCCAATGCTAATGGCAGACATCAGGAAGGAGGAGAGGAACCATTTGTGCAGATCATCTAG
AAGAACCTGGACCATTCTTGATGGAGCTGAATACAGTGATCACGTTGTCCTCCAAGGAGC
AGGGGTGGGGTGGGGTACTTCTAGGAGTCCTTGGAGAAAAGTAAGAAACCAGGAGTGTTT
CCAGTTCCACCCTTTCTGCGGCACCACCTCCCTTTTATATTGCTGAATGCCAACCTCC
CTGGGGCGGAACCTGGAGGTCTGTTTCTTATGGAAGTTGTTGCCACAGTCCAGGAGCAT
TTGAAGGCACAGTGCAAGGGCTCAGATTGGCACAGAATTCTTTGTGAAATATGAGTGCCA
CAGACTGTAACAGATAGCTTCATGCACACTATGCATTTTATTGGTTTGGTTTGGAAAATGT
TGGCCATTGAATTATTAATAGGTTTATTTCAAATAGTTTGGAAATTGTTGTACTTTTGAA
AACATGCTGTTCTGTAGAGTTTTTTTGATGAGAGTTATAGTTGTTATATATACATAAAGA
TAATTTTCTTTTCATTTTTAAGTGAGAATCTTTTTATCCTAAATCTTTTATTATCTTTA
AATTTTTTCTGTATTATTATATGTGCTCCTGAAGCGAGCACTCTTTTTATCTATGATAC
TTCCATAATAATCTCTTCTATTTATAGCTATTGGTAGTTCCCCACCAGAAAAAACATAA
TTCTGGTGATAGAAATTTTTATTTGCTGTTTAGGTTTGTGACTGAATTGTGAGAATTCAG
TTGTGATTTTTAACATGTCTCAGATATATATACTAACACGTCTAATGTATACTATCTATT
TTATTGGTTTTATTTTGAAAAACATGGGTACAGAATTATTTAAATATTATTTTATTATTG
AAATATTTATTAAATATATTTATTTTAAATATTATTATTACTTTAAATATTATTTTA
AATATTTTGGAAATACTGGTATTTTTGAATAGATGCTGTTTCTATAAAGCTGTGTGATGG
GTGTTATAACTGTTGTATACACATACATATAATTTTGTTTTCTTTTTAAGAGAGGATTTC
TTTTCATCCTAAATCTTTTACCTTTCAATCTTTGTATCTATTATTACAGTGCTGCTGAA
GGGAGCATGGTTTTTATCTATGATACTTAGTTAACATATATATTACATTTATAGCTATGT
GGTAGTTCCCCTAAATCTTGTAATAAATAAATTTTTATTG

Gene 481. >ENST00000222553 cDNA sequence

CGCGCGGCCCTGTCTCCGGCCCCGAGATGAATCCTGCGGCAGAAGCCGAGTTCAACATC
CTCCTGGCCACCGACTCCTACAAGGTTACTCACTATAAAACAATATCCACCAACAACAAGC
AAAGTTTATTCTACTTTGAATGCCGTGAAAAGAAGACAGAAAACTCCAAATTAAGGAAG
GTGAAATATGAGGAAACAGTATTTTATGGGTTGCAGTACATTCTTAATAAGTACTTAAAA
GGTAAAGTAGTAACCAAAGAGAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTTC
CAAGATGATGTCTTAAATGAAAAGGGATGGAACCTACATTCTTGAGAAGTATGATGGGCAT
CTTCCAATAGAAAATAAAGCTGTTCTGAGGGCTTTGTCAATCCAGAGGAAATGTTCTC
TTCACGGTGGAAAACACAGATCCAGAGTGTTACTGGCTTACAAATTGGATTGAGACTATT
CTTGTTCAAGTCTGGTATCCAATCACAGTGGCCACAAATCTAGAGAGCAGAAGAAAATA
TTGGCCAAATATTTGTTAGAACTTCTGGTAACCTTAGATGGTCTGGAATACAAGTTACAT
GATTTTGGCTACAGAGGAGTCTCTTCCCAAGAGACTGCTGGCATAGGAGCATCTGCTCAC
TTGGTTAACTTCAAAGGAACAGATACAGTAGCAGGACTTGCTCTAATTAATAAATATTAT

FIGURE 1 (CONT'D)

GGAACGAAAGATCCTGTTCCAGGCTATTCTGTTCCAGCAGCAGAACACAGTACCATAACA
GCTTGGGGGAAAGACCATGAAAAAGATGCTTTTGAACATATTGTAACACAGTTTTTCATCA
GTGCCTGTATCTGTGGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAATATGG
GGTGAAGATCTAAGACATTTAATAGTATCAAGAAGTACACAGGCACCACTAATAATCAGA
CCTGATTCTGGAAACCTCTTGACACTGTGTTAAAGGTTTTGGAGATTTTAGGTAAGAAG
TTTCTGTTACTGAGAACTCAAAGGGTTACAAGTTGCTGCCACCTTATCTTAGAGTTATT
CAAGGGGATGGAGTAGATATTAATACCTTACAAGAGATTGTAGAAGGCATGAAACAAAAA
ATGTGGAGTATTGAAAATATTGCCTTCGGTTCTGGTGGAGGTTTGTACAGAAGTTGACA
AGAGATCTCTTGAATTGTTCCCTTCAAGTGTAGCTATGTTGTAATAATGGCCTTGGGATT
AACGTCTTCAAGGACCCAGTTGCTGATCCCAACAAAAGGTCAAAAGGGCCGATTATCT
TTACATAGGACGCCAGCAGGGAATTTTGTACTGAGGAAGGAAAAGGAGACCTTGAG
GAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAATGGCAAGGTGACAAAAGCTAT
TCATTTGATGAAATAAGAAAAAATGCACAGCTGAATATTGAACTGGAAGCAGCACATCAT
TAGGCTTTATGACTGGGTGTGTGTTGTGTGTATGTAATACATAATGTTTATTGTACAGAT
GTGTGGGGTTTTGTGTTTTATGATACATTACAGCCAAATTATTTGTTGGTTTTATGGACATA
CTGCCCTTTCATTTTTTTTCTTTTCAGTGTTTAGGTGATCTCAAATTAGGAAATGCATT
TAACCATGTAAAAGATGAGTGCTAAAGTAAGCTTTTTAGGGCCCTTTGCCAATAGGTAGT
CATTCAATCTGGTATTGATCTTTTCAAAATAACAGAAGTGAAGAACTTTTATATATAAC
TGATGATCACATAAAAAGATTTGCATAAAATTACCATGATTGCTTTATGTTTATATTTA
ACTTGTATTTTTGTACAAACAAGATTGTGTAAGATATATTTGAAGTTTCAGTGATTTAAC
AGTCTTTCCAACTTTTCATGATTTTTATGAGCACAGACTTTCAAGAAAATACTTGAAAAT
AAATTACATTGCCTTTTGTCCATTAATCAGCAAATAAAACATGGCCTTAACAAAGTTGTT
TGTGTTATTGTACAATTTGAAAATTATGTCGGGACATACCCTATAGAATTACTAACCTTA
CTGCCCTTGTAGAATATGTATTAATCATTCTACATTAAAGAAAATAATGGTTCTTACTG
GAATGTCTAGGCACTGTACAGTTATTATATATCTTGGTTGTTGTATTGTACCAAGTGAAT
GCCAAATTTGAAAGGCCTGTACTGCAATTTTATATGTGAGAGATTGCCTGTGGCTCTAAT
ATGCACCTCAAGATTTTAAGGAGATAATGTTTTTAGAGAGAATTTCTGCTTCCACTATAG
AATATATACATAAATGTAAAATACTTACAAAAGTGG

Gene 482. >ENST00000292634 cDNA sequence

AGAGTCACATGGCTGGGACATGCCACGGTAATGGTGGAAATGGATGAGCTCATATTTCTC
ACGGATCCCATCTTTAGCTCTCGTGCTTCACCATCGCAGTACATGGGTCCAAAGCGATTT
CGTCGTTCCCCGTGCACAATAAGTGAAGTCCCTCCAATAGATGCGGTCCTTATCAGTCAC
AACCCTATGACCATCTGGACTACAATTCTGTCTTGAATGAGCGATTTGGTAAT
GAGTTGAGATGGTTTGTGCCTTTGGGTCTCCTTGACTGGATGCAAAAATGTGGCTGTGAG
AATGTGATTGAGTTGGAAGTGGTGGGAGGAGAATTGTGTCCCGGACATGATAAGGTCACT
TTTGTCTTTACACCTTCCCAGCACTGGTGTAAAAGGACTCTAATGGATGACAAACAAGGTG
CTATGGGGCAGCTGGTCTGTCTTGGGGCCTTGAATCGATTTTTTTTCGAGGAGATACT
GGTTATTGCCCTGCTTTTGAAGAGATAGGAAAAAGATTTGGACCTTTTGACCTTGACAGCT
ATTCCCATCGGAGCTTATGAACCGAGGTGGTTTATGAAATACCAGCATGTAGACCAGAA
GAAGCTGTAAGGATTCACTGATGTCCAAACAAAGAAATCTATGGCAATTCAGTGGGGA
ACTTTTGCCTTAGCAAATGAG

Gene 483. >ENST00000328403 cDNA sequence

GCCCAAGAGAGCAAACCTTGGTTTGTGAAAATCAGCAGATAAGGCAATTGAAAGGGAAG
AAGAACAACGACTATCGTCTATTCCACAAGATGAGTAACAGCCACCCTCTTCGCCCTTT
ACTGCAGTGGGGGAAATTGATCATGTGCACATTTTGTCTGAACATATTGGTGCCTTGTTG
ATTGGGGAAGAATATGGCGACGTCAATTCTGTTGGTGGAAAAGAAACGTTTTCTGCCAC
AGGGTAATTTTAGCAGCCAGGTGCCAATATTTTCGAGCATTATTATATGGTGGAAATGCGA
GAGTCTCAGCCTGAAGCAGAAATTCCTCTCCAAGACCACTGCAGAAGCATTACAATG
CTACTCAAATATATCTACACTGGGCGGGCAACGCTGACAGATGAGAAGGAGGAGGTGCTG
CTGGACTTTTTGAGCCTGGCTCATAAATATGGATTTCCAGAGCTAGAGGATTCTACCTCT
GAGTATCTCTGCACCATACTTAACTTGAATGTCTGCATGACTTTTGATGTTGCCAGT
CTCTACTCACTTCCCAAGTTAACTTGTATGTGCTGCATGTTTATGGATAGGAATGCTCAG
GAAGTCTCTCAAGTGAAGGTTTCTCTCCCTTTCTAAGACAGCACTTTTAAACATCGTG
TTAAGAGACTCATTTGCAGCTCCCGAAAAAGATATTTTCTAGCCTTATTAACTGGTGT

FIGURE 1 (CONT'D)

AAGCA CAATTCAAAGGAGAATCATGCTGAAATCATGCAGGCTGTGCGTTTACCTCTCATG
AGCCTCACAGAGCTTCTGAATGTTGTGAGGCCTTCAGGACTGCTGTCTCCTGATGCCATC
CTGGATGCCATTAAAGTGCATCTGAGAGCCGGGATATGGACCTCAATTATAGAGGCATG
CTCATACCAGAAGAAAACATTGCAACTATGAAGTATGGAGCCCAAGTTGTAAAGGGGGAG
CTGAAATCAGCCTTATTAGATGGTGATACTCAAAATTATGATTGGATCATGGATTTTCA
AGGCACCCAATTGATGATGACTGCCGTTCCGGCATCGAGATTAAAGCTAGGTGAGCCATCC
ATTATCAATCACATACGGATACTCTTGTGGGACCGAGATAGCCGGTCTTACTCATACTTC
ATTGAAGTGTCAATGGATGAACTTGATTGGGTGAGAGTGATAGATCATTACAATATCTG
TGTCGTTCTTGGCAGAAATTATATTTTCCAGCCCGTGTCTGCAGGTATATTGCAATTGTT
GGGACTCACAACACAGTGAACAAGATTTTTCACATTGTGGCTTTTGAATGTATGTTTACA
AACAAAACCTTCACTCTTGAGAAGGGGCTGATAGTTCCCATGGAGAATGTTGCAACAATT
GCTGATTGTGCCAGTGTGATTGAAGGAGTCAGTCGGAGCCGAAATGCCTTGCTGAATGGG
GACACTAAGAATTATGACTGGGATTCTGGCTACACATGTCACCACTAGGAAGTGGTGCG
ATTGTGGTTTCAGTTGGCA CAACCGTACATGATTGGGTCAATACGTTACTACTTTGGGAT
TGTGATGATCGAAGCTATAGCTACTACGTTGAGGTTTCTACCAACCAGCAACAGTGGACC
ATGGTTGCTGACAGAACTAAAGTCTCCTGCAAGTCTGGCAGTCAGTAACTTTTGAAAGG
CAGCCTGCCTCCTTCATCCGTATCGTTGGGACACACAACACAGCAAATGAGGTGTTCCAC
TGTGTCCACTTTGAGTGTCCAGAGCAGCAGAGCAGCCAGAAGGAGGAAAATAGTGAGGAA
TCGGGGACAGGGGACACCAGCCTGGCCGGTCAGCAGCTCGACTCCATGCGCTGCGGGCG
CCTAGTGGCAGCTCACTACCTCCAGCCAGGCTCCAACCTCAGCTCCCCAACCGGCAG
CACCAATAA

Gene 484. >ENST00000297431 cDNA sequence

ATGCCCCACTTGGAACCGTGGTGCTTTGTGCGGAGTCTCAAGTGTCCATCTTGCAGTCC
TTGTTTGGAGAGAGACATCATTTTCACTTTCCATCCATTTTTATTTATGGACATACTGCT
AGTGGAAGACCTATGTAACACAAACGTTGTTGAAAACCTTAGAGCTCCACATGTGTTT
GTGAATTGTGTTGAATGCTTTACATTGAGGCTGCTTTTGGAAACAAATTTTAAACAAATTG
AATCATCTTAGTTCTTCAGAGGATGGATGTTTCTACTGAAATAACCTGTGAAACATTTAAT
GACTTTGTTTCGCTTGTTTAAACAAGTAACACAGCTGAAAATCTTAAAGATCAGACTGTA
TATATTGTTCTAGATAAAGCAGAGTATCTAAGAGATATGGAAGCAAATCTTTTGCCTGGA
TTTCTTAGATTACAAGAATTGGCTGACAGAAATGTGACTGTTCTCTTTCTCAGTGAAATT
GTTTGGGAAAAGTTTCGTCCAAATACTGGATGCTTTGAGCCGTTTGTCTTATATTTCCCT
GATTACAGCATAGGCAACCTTCAAAGATCCTGTCCCATGATCATCCTCCAGAGTATTCA
GCTGATTTCTATGCTGCCTACATTAAACATTCTTCTGGAGTTTTCTACACTGTTTGTGCA
GATTTGAAAGAGCTCAGACATCTGGCAGTACTTAATTTTCTAAATATTGTGAACCCGTG
GTTAAAGGAGAAGCAAGTGAACGTGATACTCGCAAACCTGTGGAGAAATATTGAACCTCAT
TTGAAGAAAGCTATGCAGACTGTTTATCTCAGGGAAATATCAAGTTCCAGTGGGAAAAG
CTACAGAAAGATGACACAGATCCGGGGCAACTGAAAGGCCTCTCAGCGCATACTCATGTG
GAACTTCCATATTACTCTAAGTTTCAATTCTAATTGCTGCATACCTTGCTTCATACAATCCA
GCAAGAACTGACAAGAGGTTTTTTCTTAAGCATCATGGAAAAATCAAGAAAACCAACTTT
CTAAAAAACACGAAAAGACAAGCAATCATCTCCTTGGGCCAAAACCATTTCCACTAGAC
AGATTATTAGCAATATTATATAGTATCGTGGACAGCAGAGTTGCTCCAACAGCAAATATT
TTTTCCAGATTACCTCTCTAGTGACCTTCAGCTGTTAACCTGGTTGGCCATGACGAT
CAGCTTGATGGACCAAAATACAAATGCACAGTGTCTCTAGACTTCATCAGAGCTATTGCA
AGGACGGTGAACCTTTGACATAATAAAATACTTGTATGATTTCTTGTGA

Gene 485. >ENST00000327597 cDNA sequence

TTGAGTATGCTCAGGCTTCAGAAGAGGCTTGCCTCTAGTGTCTCTGCTGTGGCAAGAAG
AATATCTGGTTAGACCCCAATGAGACCAATGAAATCACCAATGCCAACTCCCGTCAGCAG
ATCCGGAAGCTGATCAAAGATGGGCTGATCATCCGCAAGCCTGTGGGTCCATTCCCCCGC
TTGATGCCGGAAGAAACACGCCTGCCGGAAGGGCAGGCATATGGGCATAGGTAAGCGGAAG
GGTACAGCCAATGCCGAATGCCAGAGAAGGTCACGTGGATGAGGAGAATGAGGATTCTG
CACC GGCTGCTCAGAAGATACCGTGAATCTAAGAAGATTGATCGCCGCATGTATCACAGC
CTGTACCTGAAGGTGAAGAGGAATGTGTTAAAAACAAGCAGATTCTC

Gene 486. >ENST00000333351 cDNA sequence

AAGAAGAGCGTCCCAGGAGAAACAAGCTTGACCACTATGCTGTACAGAGTTTCTCTCTG

FIGURE 1 (CONT'D)

ACCACTGAGTCTGCCATGAAGAAGATAGAAGACAACAACACACTTGTGTTCACTGTGGAT
GTTAAAGCCACCAAGCACCAGATCAAACAGGCTGTGAAGAAGCTCTATGACACTGATGTG
GCCAAAGTCCATGCCCTGATTAGGCCTGATGCAGGAAGAAGGCATAAGCTCCTGGCTCCT
GATTACAATGCTTTGGATATTGCCAACAAAATTGGGATC

Gene 487. >ENST00000323716 cDNA sequence

ACCGCCCCGCGCTCCGCTGCCAGGGGCGGGAGGGAGGAATGGTTGCTTCACGCCCCGGGG
GAAGAGACGGGAAGCTCGGCTCTGGGTTGCGGGCCCCGGCGTCTCCGCGTGGGGCGCACC
GTCCGACCCCCCTCCCGGTGTGCAGCGCCCCGACCGCCCCGCTCGCCTGGGAGAAG
CCGCCGGGACGCGCCGGGCTGGAGTGGGCGGTTATAGGCTTTGAGCTAGGCCGTTTCCGG
GAGGCGGAGCTCAGACCCATTTCTTTCTCCACATCCAGGTGAGGTGGCGTTTGTCTGTG
GCGGCTAGGCCCGCGTGCCTGGAGACCTCCGCGTGGCCCCCGGAGCCTCCTGCCCTG
GCCCGGCGCTGCGGCTCTGCCGCGGCGGCAGCATGGGTGGCCCCGGGGCGCGGGCTGGG
TGGCGGCGGGCCTGCTGCTCGGCGCGGGCGCCTGCTACTGCATTTACAGGCTGACCCGGG
GTCGGCGGCGGGGCGACCGCGAGCTCGGGATACGCTCTTCAAGTCCGAGGTGCCCTGG
AAGAAGGGACGTGAGAGGGTCAAGAGCTCGCAGCCTGAAGACTTAACTGATGGTTTCATATG
CTGAGTGTCTAAATGCTGAACAACCTCAGAACTCCTTTACCTGCTGGAGTCAACGGAGG
ATCCTGTAATTATTGAAAGAGCTTTGATTACTTTGGGTAACAATGCAGCCTTTTCAGTTA
ACCAAGCTATTATTTCGTGAATTGGGTGGTATTCCAATTGTTGCAACAAAATCAACCATT
CCAACAGAGTATTAAAGAGAAAGCTTTAAATGCACTAAATAACCTGAGTGTGAATGTTG
AAAATCAAATCAAGATAAAGATATACATCAGTCAAGTATGTGAGGATGTCTTCTCTGGTC
CTCTGAACTCTGCTGTGCAGCTGGCTGGACTGACATTGTTGACAAACATGACTGTTACCA
ATGACCAACAGCACATGCTTTCAGTTACATTACAGACCTGTTCCAGGTGTTACTTACTG
GAAATGGAAACACGAAGGTGCAAGTTTTGAAACTGCTTTTGAATTTGTCTGAAAATCCAG
CCATGACAGAAGGACTTCTCCGTGCCCAAGTGGATTCAATCATTCTTTCCCTTTATGACA
GCCACGTAGCAAAGGAGATTCTTCTTCGAGTACTTACGCTATTTCAGAATATAAAGAACT
GCCTCAAATAGAAAGGCCATTTAGCTGTGCAGCCTACTTTCACTGAAGGTTCAATTGTTTT
TCCTGTTACATGGAGAAGAATGTGCCAGAAAATAAGAGCTTTAGTTGATCACCATGATG
CAGAGGTGAAGGAAAAGGTTGTAAACAATAATCCCAAATCTGATTGGTCATATTTTTCC
AAAGAGTAATGCAGTCTGGATATAAACGTATTTTCTGTCTTCTTATAAGGGGATTCTCC
CAGCTGCTAAATTTAAACAGTAAATATCACATTTTGTCAATTAACAAGCTATAACTTGCC
GTGGTTCTCAGATTTATTTTGGACTATTTTGTATGCCAAGTGAATATAAGAGCTTGTACTG
AAACCATTTATTTCTTTCTATTTTGTATTTGCAAATGCTTGTATCTTCCCTACATGAA
GTGGCAGTAACCTTTTTTCAATTTAAGCTACCTTCTACCTTTTGAAGTGATTTGCAGTT
ACTCATCTGAGACAGCATCAGTATTTGACTAAATCATTGTTTTCAAACTGAATAGTCTTG
TTCTTTTAGTAGCAACGAATCCTAAGCTCTTGAGGCCATTACCTGCCAACCTGACCAT
ACTGCTTTCAAAGTCTTTTCTCATCAGTAGAATCTATTTTGGTCACTTCTAGTCAATGA
AAAATGTAACTTTTAGGAGAGAATGTTTCTTAGGACTCACCACTCCATTCAATGTTAT
ATATAAAATAGTGTGATCAATCACAATGTCCATCTTTAGACAGTTGGTTAAATAAATTAT
CTGGTCTTTGAAAAGACCGTGTGGGCGCGGTGGCTCTTGCTGTAAATCCAGCACTTTG
GGAGGCTGAGGCGGGCAGATCACTGAGATCGGGAGTTTGAACCAAGCCTGACCAATAT
GGAGAAACCCTGTCTCTACTAAGAACAAAAATTAGCTGGGCATGGTGGTGCATGCCTGT
AATCCCAGCTACTTGGGAGGCCGAGGCAGGAGAATTGCTTGAACCGGGAGGCAGAGGTT
GCAGTGAGCTGAGATAGCGCCATTGCACTCCAGCCTGGGCAACAAGAGCAAACTCTGTC
TCAAAAAAAAAAAAAAAAAATGATGGAGCTCCGAATGTGCTTAAAGTGAAAGATATCTATGAA
ATATGGTGGTTTTTTTAAACACAAAAATTATAGAATATGGGATCCCGTGTGTGTGTGTGT
GTGTTTGAATGAAAATGCTTATGTATTGACAGAACTTCTAGAATGATACCCAACTC
CTGGAGTGGGAGTGGGGAATGCCTTCTACGTACACACTGTTCTACTGTTTGAATTTTTTA
ATATGAGCCCAAATTGTATAATCTTTTTTTAATAAAGGGGAGAAAAATC

Gene 488. >ENST00000306450 cDNA sequence

ACCGCCCCGCGCTCCGCTGCCAGGGGCGGGAGGGAGGAATGGTTGCTTCACGCCCCGGGG
GAAGAGACGGGAAGCTCGGCTCTGGGTTGCGGGCCCCGGCGTCTCCGCGTGGGGCGCACC
GTCCGACCCCCCTCCCGGTGTGCAGCGCCCCGACCGCCCCGCTCGCCTGGGAGAAG
CCGCCGGGACGCGCCGGGCTGGAGTGGGCGGTTATAGGCTTTGAGCTAGGCCGTTTCCGG

FIGURE 1 (CONT'D)

GAGGCGGAGCTCAGACCCCATTTCTTTCTCCACATCCAGGTGAGGTGGCGTTTGCTGTG
GCGGCTAGGCCCCGCGTGCCTGGAGACCTCCGCGCTGGCCCCGCGAGCCTCCTGCCCTG
GCCCGGCGCTGCGGCTCTGCCGCGGCGGCAGCATGGGTGGCCCCGCGGCGCGGGCTGGG
TGGCGGCGGGCCTGCTGCTCGGCGCGGGCGCCTGCTACTGCATTTACAGGCTGACCCGGG
GTCGGCGGCGGGGCGACCGCGAGCTCGGGATACGCTCTTCGAAGTCCGCAGAAGACTTAA
CTGATGGTTTCATATGATGATGTTCTAAATGCTGAACAACCTTCAGAACTCCTTTACCTGC
TGGAGTCAACGGAGGATCCTGTAATTATTGAAAGAGCTTTGATTACTTTGGGTAACAATG
CAGCCTTTTCAGTTAACCAAGCTATTATTTCGTGAATTGGGTGGTATTCCAATTGTTGCAA
ACAAAATCAACCATTCCAACCAGAGTATTAAAGAGAAAGCTTTAAATGCACTAAATAACC
TGAGTGTGAATGTTGAAAATCAAATCAAGATAAAGATATACATCAGTCAAGTATGTGAGG
ATGTCTTCTCTGGTCTCTGAACTCTGCTGTGCAGCTGGCTGGACTGACATTGTTGACAA
ACATGACTGTTACCAATGACCACCAGCACATGCTTCACAGTTACATTACAGACCTGTTCC
AGGTGTTACTTACTGGAAATGGAACACGAAGGTGCAAGTTTTGAACTGCTTTTGAATT
TGTCTGAAAATCCAGCCATGACAGAAGGACTTCTCCGTGCCAAGTGGATTATCATTCC
TTTCCCTTTATGACAGCCACGTAGCAAAGGAGATTCTTCTTCGAGTACTTACGCTATTTT
AGAATATAAAGAACTGCCTCAAAATAGAAGGCCATTTAGCTGTGCAGCCTACTTTCACTG
AAGGTTCAATTGTTTTTCTGTTACATGGAGAAGAATGTGCCAGAAAATAAGAGCTTTAG
TTGATCACCATGATGACAGAGGTGAAGGAAAAGGTTGTAAACAATAATCCCAAAATCTGAT
TGGTCAATTTTTTCAAAGAGTAATGCAGTCTGGATATAAACGTATTTTCTGTCTTCTT
ATAAGGGGATTCTCCAGCTGTCAAATTTAAACAGTAAATATCAATTTTGTCAATTAACA
CAGCTATAACTTGCCGTGGTTCTCAGATTTATTTTGGACTATTTTGATGCCAAGTGAATA
TAAGAGCTTGTACTGAAACCATTTATTTCTTTCTATTTTGTATTTGCAAATGCTTGTTA
TCTTCCCTACATGAAGTGGCAGTAACCTTTTTTCAATTTAAGCTACCCTTCTACCTTTTG
AAGTGATTTGCAGTTACTCATCTGAGACAGCATCAGTATTTGACTAAATCATTGTTTCC
AACTGAATAGTCTTGTTCTTTTAGTAGCAACGAAATCCTAAGCTCTTGAGGCCATTCAAC
TGCCAACCTGACCATACTGCTTTCAAAGTCTTTTCTCATCAGTAGAATCTATTTTGGTC
ACTTCTAGTCAATGAAAAATGTAACTTTTAGGAGAGAATGTTTCTTAGGACTCACCCAC
TCCATTCAATGTTATATATAAAATAGTGTGATCAATCACAATGTCCATCTTTAGACAGTT
GGTTAAATAAATTATCTGGTCTTTGAAAAGACCGTGCTGGGCGCGGTGGCTCTTGCTGT
AATCCCAGCACTTTGGGAGGCTGAGGCGGGCAGATCACCTGAGATCGGGAGTTTGAGACC
AAGCCTGACCAATATGGAGAAACCTGTCTCTACTAAGAACACAAAATTAGCTGGGCATG
GTGGTGCATGCCTGTAATCCAGCTACTTGGGAGGCGGAGGCAGGAGAATTGCTTGAACC
CGGAGGCAGAGGTTGCAGTGAGCTGAGATAGCGCCATTGCACTCCAGCCTGGGCAACAA
GAGCAAACTCTGTCTCAAAAAAAAAAAAAAAAAATGATGGAGCTCCGAATGTGCTTAAGTGG
AAAGATATCTATGAAATATGGTGGTTTTTTTAAACACAAAAATTATAGAATATGGGATCC
CGTGTGTGTGTGTGTGTGTTGAATGAAAAATGCTTATGTATTGACAGAACACTTCTAGA
ATGATACCCAACTCCTGGAGTGGGAGTGGGGAATGCCTTCTACGTACACACTGTTCTAC
TGTTTGAATTTTTTAATATGAGCCCAAATTGTATAATCTTTTTTTAATAAAGGGGAGAAA
AATC

Gene 489. >ENST00000323735 cDNA sequence

ACCGCCCCGCGCTCCGCTGCCAGGGGCGGGAGGAGGAATGGTTGCTTCACGCCCCGGGG
GAAGAGACGGGAAGCTCGGCTCTGGGTGCGGGCCCCGCGTCTCCGCGTGGGGCGCACC
GTCCGACCCCCCTCCCGGTGTGCAGCGCCCCGACCGCCCCGCTCGCCTGGGAGAAG
CCGCGGGACGCGCCGGGCTGGAGTGGGCGGTTATAGGCTTTGAGCTAGGCCGTTTCCGG
GAGGCGGAGCTCAGACCCCATTTCTTTCTCCACATCCAGGTGAGGTGGCGTTTGCTGTG
GCGGCTAGGCCCCGCGTGCCTGGAGACCTCCGCGCTGGCCCCGCGAGCCTCCTGCCCTG
GCCCGGCGCTGCGGCTCTGCCGCGGCGGCAGCATGGGTGGCCCCGCGGCGCGGGCTGGG
TGGCGGCGGGCCTGCTGCTCGGCGCGGGCGCCTGCTACTGCATTTACAGGCTGACCCGGG
GTCGGCGGCGGGGCGACCGCGAGCTCGGGATACGCTCTTCGAAGTCCGCAGGTGCCCTGG
AAGAAGGGACGTGAGAGGTCAGTTGTGCGGGCGCTCGGCCCGGCCTCAGACGGGAGGTA
CCTGGGAGTCACAGTGGTCCAAGACCTCGCAGCCTGAAGACTTAACTGATGGTTATATG
ATGATGTTCTAAATGCTGAACAACCTTCAGAACTCCTTTACCTGCTGGAGTCAACGGAGG
ATCCTGTAATTATTGAAAGAGCTTTGATTACTTTGGGTAACAATGCAGCCTTTTCAGTTA
ACCAAGCTATTATTTCGTGAATTGGGTGGTATTCCAATTGTTGCAACAAAATCAACCATT

FIGURE 1 (CONT'D)

CCAACCAGAGTATTAAAGAGAAAGCTTTAAATGCACTAAATAACCTGAGTGTGAATGTTG
 AAAATCAAATCAAGATAAAGGTGCAAGTTTTGAACTGCTTTTGAATTTGTCTGAAAATC
 CAGCCATGACAGAAGGACTTCTCCGTGCCCCAAGTGGATTTCATCATTCTTTCCCTTTATG
 ACAGCCACGTAGCAAAGGAGATTCTTCTTCGAGTACTTACGCTATTTCAGAATATAAAGA
 ACTGCCTCAAAATAGAAGGCCATTTAGCTGTGCAGCCTACTTTCACTGAAGGTTCAATTGT
 TTTTCCTGTTACATGGAGAAGAATGTGCCAGAAAATAAGAGCTTTAGTTGATCACCATG
 ATGCAGAGGTGAAGGAAAAGGTTGTAAACAATAATACCCAAAATCTGATTGGTCATATTTT
 TCCAAAGAGTAATGCAGTCTGGATATAAACGTATTTTCTGTCTTCTTATAAGGGGATTCT
 TCCCAGCTGCTAAATTTAAACAGTAAATATCACATTTTGTCAATTAACACAGCTATAACTT
 GCCGTGGTTCTCAGATTTATTTTGGACTATTTTGTGCAAGTGAATATAAGAGCTTGTA
 CTGAAACCATTTATTTCTTTCTATTTTGCTATTTGCAAATGCTTGTTATCTTCCCTACAT
 GAAGTGGCAGTAACCTTTTTTACATTTAAGCTACCTTCTACCTTTTGAAGTGATTTGCA
 GTTACTCATCTGAGACAGCATCAGTATTTGACTAAATCATTGTTTCACAACTGAATAGTC
 TTGTTCTTTTAGTAGCAACGAAATCCTAAGCTCTTGAGGCCATTACCTGCCAACCTGAC
 CATACTGCTTTCAAAAGTCTTTTCTCATCAGTAGAATCTATTTTGGTCACTTCTAGTCAA
 TGAAAAATGTAACTTTTAGGAGAGAATGTTTCTTAGGACTCACCCACTCCATTCAATGT
 TATATATAAAATAGTGTGATCAATCACAATGTCCATCTTTAGACAGTTGGTTAAATAAAT
 TATCTGGTCTTTGAAAAGACCGTGCTGGGCGCGGTGGCTCTTGCTGTAAATCCCAGCACT
 TTGGGAGGCTGAGGCGGCGAGATCACCTGAGATCGGGAGTTTGAGACCAAGCCTGACCAA
 TATGGAGAAACCTGTCTCTACTAAGAACACAAAATTAGCTGGGCATGGTGGTGCATGCC
 TGTAATCCCAGCTACTTGGGAGGCGGAGGCAGGAGAATTGCTTGAAACCGGGAGGCAGAG
 GTTGCACTGAGCTGAGATAGCGCCATTGCACTCCAGCCTGGGCAACAAGAGCAAACTCT
 GTCTCAAAAAAAAAAAAAATGATGGAGCTCCGAATGTGCTTAAGTGAAAGATATCTAT
 GAAATATGGTGGTTTTTTTAAACACAAAATTATAGAATATGGGATCCCGTGTGTGTGTG
 TGTGTGTTTGAATGAAAAATGCTTATGTATTGACAGAACACTTCTAGAATGATACCCAAA
 CTCCTGGAGTGGGAGTGGGGAATGCCTTCTACGTACACACTGTTCTACTGTTTGAATTTT
 TTAATATGAGCCCAAATTGTATAATCTTTTTTTAATAAAGGGGAG

Gene 490. >ENST00000229866 cDNA sequence

GATGGGGGAGCCCGGCTTCTTCGTACAGGAGACCGCGCCGGTGGCCGGAGCTGGTGCCT
 GCGGCGGGTGGGGATGAGCGCCGGGTGGCTGCTGCTGGAAGATGGGTGCGAGGTGACTGT
 AGGACGAGGATTTGGTGTACATACCAACTGGTATCAAAAATCTGCCCCCTGATGATTTT
 TCGAAACCACTGTGTTTTGAAGCAGAATCCTGAGGGCCAATGGACAATTATGGACAACAA
 GAGTCTAAATGGTGTGTTGGCTGAACAGAGCGCGTCTGGAACCTTTAAGGGTCTATTCCAT
 TCATCAGGGAGACTACATCCAACCTGGAGTGCTCTGGAAAATAAGGAGAATGCGGAGTA
 TGAATATGAAGTTACTGAAGAAGACTGGGAGACAATATATCCTTGTCTTTCCCCAAAGAA
 TGACCAATGATAGAAAAAATAAGGAATTGAGAACTAAAAGGAAATTCAGTTTGGATGA
 ATTAGCAGGTCCTGGAGCTGAAGGCCCTCAAATTTGAAATCAAAATAAATAAAGTGTCT
 TTGTGAATCTGGTCAGCCAGTGAAATCACAGGGGAAAGGTGAAGTGGCCAGTACACCTCT
 TGACAATTTGGATCCTAAGTTGACTGCCCTTGAGCCAAGTAAGACACAGGGGCTCCCAT
 TTACCCTGGCTTCCCCAAAGTACAGAGGTTTCATCATGAGCAGAAAGCCTCAAACCTCTTC
 AGCATCTCAGAGAAGCTTACAGATGTTTAAAGGTGACCATGTCCAGGATTCTGAGGCTCAA
 AATACAGATGCAGGAAAAACATGAAGCCGTTATGAATGTGAAAAAGCAGACCCAAAAGGG
 GAACTCAAAGAAAGTTGTGCAAATGGAGCAGGAACCTTCAGGACTTACAGTCCCAGCTGTG
 TGCAGAGCAGGCTCAGCAGCAGGCAAGAGTGGAGCAACTAGAGAAGACTTTCAGGAAGA
 GGAACAGCATCTTCAGGGTTTGGAGATAGCCCCAAGGAGAAAAGGACCTGAAGCAACAGCT
 GGCCAGGCTCTGCAGGAGCATTGGGCTCTAATGGAAGAGCTAAATCGCAGCAAGAAGGA
 CTTTGAAGCAATCATTCAAGCCAAGAACAAAGAATTAGAGCAGACCAAGGAAGAGAAGGA
 GAAGATGCAAGCACAGAAGGAAGAAATTCTTAGCCACATGAATGATGTGCTAGAGAATGA
 GCTCCAATGTATTATTTGTTTCAAGTACTTCAATTGAGGCTGTACCTTGAAGTGTGCCCA
 CAGTTTCTGCTCCTACTGTATCAATGAATGGATGAAGCGGAAGATAGAATGCCCCATTTG
 TCGGAAGGACATTAAGTCCAAAACGTAATCTTTGGTTCTGGACAATTGCATTAATAAGAT
 GGTAAATAATCTGAGCTCAGAAGTGAAAGAACGACGAATTGTTCTCATTAGGGAACGAAA
 AGCAAAGAGATTGTTCTGAAGACCGTGCTCTAAGGGCATTGAAAGACTGCCAGGTAGTG
 CGAGCCTGAGATGGTCTGGAGGATTCTCTCTAGCCGTGACTCCGCTGCTCTGAAGGTCAA

FIGURE 1 (CONT'D)

CTGAGAAGTCTTGTGGGACAGAGACTTGAGTTAGGAAGCCCTCAGTCACTTGCCTTCCAC
GGTGGCCAGCCCTGCTGCCATCATTGGCTGAAGCACCACCAGGATT CACGGCACCCAACT
GCTTCAGGGTACTTCGTAGACTCTGCCTCACTACATGTCGAAAGAGTTATTTGAGTTCTC
TTCTGTTTTTTTTTAATTTGTTGTTGTTGTTACTGTTTTGATACCTCGGAAACACCTCCG
TTGACAGTTGTTTTGGATAGGTTGGGTGTACCCCATGGCTGCCTCTGAAGGCAGTGTCTA
TTTTGAGAGGATGGCTTACCTCTTCTTTGTGAAAATACTATCTCATTTCCTGGAAATAAA
ATGTA AACCTGT CAGTTGCT CAGCTGGGCTTTGGTGTATTTACCTTCCTTCCCTTCCTG
CTCCAGACAGTCTCACAAGTAAACACCAGCAGCTCATAGATTACAACCAAGAAAGTGAC
TGTATCAGATGATAGACTTCAAGTGAATGT CAGCCTAAGAGGCCAAGCTGCAGATCGTGG
CAACAGATGAGCTCTGTTAACCTCCTGACTGTCGTGTTTCCTTTTTATTACAGAGGTGGG
TCACTGTTTACCTTGTTTCAGGGGTGGGAGAACTCCTTTCCTTCAGCTGGCATTGTAAT
GTTTCCAAATCTATTTTATCTGACGT CATGAACACACAGGCAATGATTTTATGACAACTT
GATGTGCTTTTTTCTTTATTTTTCTTTTACATTAGAAGTTTTCTCTCTTTTCTCCACCTC
TCCTTTATTTTTAATTTTAATTTTAATTTTTGAAACAAGATCTGACTCTGTTGCCCAAGC
TGGAGTACAGTAGTGCAATCTCAGCTCACTGCAACCTCCACCTCCAGACTCAAGCCATC
CTCCACCTCAACCTCCCAAGTAGCTGGGACTACAGGCATATGCCATCACACCCAGCTAA
TTTTTGTTTTCTGTAGAGACAGGGTTTTACCATTGTTGGCCAGGCTGGTCTCAAATTCCT
GACCTTAAGTGATCCACCTGCCTAGGCCTCTAAAATGCTGGGATTACAGGCGTGAGCCAC
CACGCCCAGCCTATACCCCATGTATTTTCATAAAGGGTTGGAAACTATTGATTGCCAACT
TTTTAAGGATGGTAGGGATTTTTTCTTTGTTGAATATACTGTGAATTTTGGGATTCTGGA
GTCCTTAGTCTTCATTTCCATTCTTCTGCCCATGATTACTGATCAAAATACTGGTAGAGT
CATGGAGGAAGTAAGTTAAATGTGGAAAAAATGCTTTAAAAGTACTTACTATAACCACAT
CATAAGAATTCTGGAAAAATAGAGAACAAAAGGAAAAGATTGTTACCACCTTGATTTAAT
AACTTCTTGTTTTCCCATACATGTGTTTTGTTTATAGATTGCATGGGTATATGTCAATTT
TTATATGTTCTGTGTTTAGTTTACATATTGTAATTCATTTTTAAGAGAGTACAGACATAC
ACTTTTTGAGTAGGCAATATGTTTACATAGTTTGAAATTAAGGTACAAAATGGCGTAGA
ATGAAATGCCTCTCACCTTTTCCCCACAGCGACTACTTCCCACTCAGAGGCAACAAGTAT
TACAGTTGCTTGTATATTCTTCCAGAGATCTCTGTCTATACAAGCAAAAACACATGTGGT
CTTTTTCTTTGCTTTGCAAAATGGTAAACTGTACGCTATTCTGAACCTTGCTTTTTTCA
GATATATGTTGGCAACAGTTCCATGT CAGTACATAGTTTCCTTTCTTTATTACAGCTGCC
TGTTTTTTTCA TTGTG TATTTGCACCATCATTTACTTTTTCTGGCTTACTTTTGATAGAAAT
CTAGGTTGGTTCAAACCTTTTTACTCTTAAAAACAATGCTGCAGTTAACACCTTGTAAT
ATATCTTTAGAGAGAAGATATTTTTAAAAAGAAATACCTTTTTAAAAATTATTTTATTATT
TTTTAATAGAGACTATGTTGCCTAGGCTGGTCTTGAAATCTGGGCTAAAGCAATCCTAC
CACCTTGGCCTCCCAAAGTGCTGAGATTACAGGCATGAGCCATTGCACCTGGCCAAGAAG
AGACATCTTGACTTGAGCCTGAAGACTATGTACAGAGACTGACCTCACAGACTGACCATT
CCATCCCACAGCTGCTGGACATAGAGTGATTTGCAGCCCCCTCCTTT CAGAGTACCACATC
CCTCTCAAGTGTTCCACAACATCTAGGAAAGTGAGCTCTTAAAGACAGACTAAAAAGAGT
AATAAATCAATACAACAACATTA AAAAGCCAGACTAGCGGAGTTTGAATCTTGGCCCTGCT
GTTAGTA ACTGTGTGAGCCTTGGGCAAGTTACTCAGCCTCCTTGTGTCTTGGTTTTGGTT
TCTTCATCTCTAAGTAATTATATCTGT CATTATTGCCCTGATCACAAA CAAAAGCCTGAA
TGTA CTATGTTTAAAAGACAAACCAAAAATTAACCCAACTTGCAATTATTTGTCTGAGCT
ACAGAATGTTCTTTCTTTGGAGAGATATCTGATATTA AACATCATCTGCATTTTACTTGC
CTAGAAAATACACGGTAACTTTTCTGCCTTG CAGCATCAA CTATAGTACAGCTGAGCCC
CAGTGCTGTGCAGTCTGACTCTAATTAAAGGCACCTTCTTTACAGCAGGGCTCTGGGGAA
CTGGAAAAGGGGGTTTTGTTTCATTATCTGGTTTTATTAAGCAGATGAATGCAGCCAGCTA
TATGAAGCACTTTGCAGTGAATGGCAGGTGTCCCATATCTGGTTATGTTAACCTAGAAAAG
GGCTCACTCTACCTCTAGGCATGTTTCATCCCAACAATCAGACTGTGCCAAAGCAGGGGA
CTTTGTCTTTGTGGATTGCATAGCTGGATACCCATCATCTGTTTCTCTGATTGGAAGCT
GCTGTTGTACAGAAAGACCTGCATTTCCCCCTTGTCTCCAGTTCTCTCACTACTTTTTCC
TCCTCTGTGAGTGACCATCCAGGCAGTCACCATAACTGCTGGAGTGTCTGGGATTGGTAG
CTCTCTCCA ACTGCCTGCTTGCTCTTTACAGCCTCTCTCTGTGACTGGAATCTCTCCACC
TCATCGTATCTAAGGATAACCAGAAACATGGGGTGTCCTAGGTATGTTTATCTCGACAC
TGAACCCCTAGGCTTCTGATGAATCCAGTGATTAGCTAAATTTGACATAGAAAGTAAGA

FIGURE 1 (CONT'D)

AGGAATGTCTACTTTGTATTGTGGTCCTAATCTAAGATCAGGAGAATCCTGGAATTGTTA
TCTGTCTCTTGCTCTGAGATACAGACTTGTTCATAGGTGTGGGGCCTGATTGGAACAGGA
TCTGCCATTGGTCACAATAGGTCAAGGGCTTGTTCTGAACCTAGTTAGCTTCATTGAGA
GAAAGAACTTCCTACCTGGTCAGCTTTTTTCAGCTTCTCCAACAAATGGGAGTTGAGGCA
GTAGGAGTGTGGGGTCTTGGAAGACGATGGGGCCTTGATTAAAGGAGAAATAATGAAC
TATCTTCTTGATTCTTCCATTGAGAAAAGCATATGAATCCTAGGAAAGGGCTCAGCCTGT
GATAGGCATTCAATAAATACTCCAATGCTGTCTATTCTTTGTCTACAGCATCCCCAAACA
ATGTACCAGTGATGGGCTACCTGAGCTCATCTAGTCGCAAGCAGTATCTCCTGCTTGCT
GCTGCTTTACTACATTCCAGATGCCCACCTCATCCAATTTCCAGAGCCACTATCTCTGCT
GTCCACTTTCTTCAGGCTCTGTGAATACTTCAACCTGCTGTGATTTGGGGCCGTTTGTA
CTCTGCATGTATTCAATAAATTCAATTCAGCAATAGTT

Gene 491. >ENST00000229492 cDNA sequence

GGCTATCTCCAGCAAACTGAGAGGAGGAAGTTGACCCTGCAGCGGAAGCGGGAGGAA
TATTTTGGCTTCATTGAACAGTATTATGACTCTCGAAACGAGGAACATCAACAGGATACC
TACAGACAGATTACATTGACATTCCAAGGACGAATCCTCTCATTCCGTTGTTCCAGCAA
CCACTTGTACAGGAGATCTTTGAAAGAATTCTATTTATTTGGGCCATCCGCCACCCTGCC
AGTGGGTATGTCCAGGGAATTAATGACCTGGTCACTCCATTCTTTGTCTCTCTCTCA
GAATATGTGGAAGAGGATGTGGAGAACTTTGACGTGACCAACTTGTCTCAAGACATGCTG
CGAAGCATTGAGGCTGACAGCTTTTGGTGCATGAGCAAGCTGCTGGATGGAATCCAGGAT
AACTACACCTTTGCACAACCAGGAATCCAGAAGAAGGTGAAGGCACTGGAAGAGCTTGTC
AGCCGGATTGATGAGCAGGTACATAATCACTTCAGGAGGTACGAGGTAGAATACCTGCAG
TTTGCTTCCGCTGGATGAACAACCTGCTTATGCGGGAGCTTCCTCTTCGCTGCACCATC
CGCCTGTGGGACACATATCAGTCTGAACCAGAAGGGTCTCCCACTTTTCTCTACGTG
TGTGCAGCCTTCTTGATCAAGTGGAGGAAAGAGATCTTGGATGAGGAGGATTTTCAGGGT
CTCCTCATGCTGCTACAGAACCTACCTACAATACACTGGGGCAACGAAGAAATTGGGCTG
CTTCTCGCCGAGGCATACAGACTCAAGTACATGTTTGCCGATGCCCCAAATCACTACCGC
CGATAGGTGCTGTCTCCTCCGGGGACCCAGACTGCCTTCATCTCTGATGGCAGTCTGATC
ACTGTGGCCACTGTGCGAGCCGTGGACCCCGGCCAGGAACCACTCCTGTTGTACAAAGCT
CACACCCACCGCCAGGTCTTAACCTTTCTGGCATCCACCACTCCATGTCTCTGGATGTGT
CACTTGGACCACTGTGAGTATTCCATGCCGCGTGGATGGGCCCAGTTCTGGGAGAGGACA
GAAAAGGTGGTACAGGGTTGTCTGCCCCCTTTAAAAGAACTGGACAAAGAAGGGGAAGGC
TCAGGGTCTCACCTCACATTGTCCCTACAAGGACAGGCCCCAACTGATAACCGTTGCTTT
TTTTTTTTTGTGAACATAGTTTGATTTGATCAAGGTCAAAAACGCCTTATATTTTCGAA
AGACTCCTGGCCCCCTCTTCCCTCTTCTGGTTTCTAGCCGTTCCCCTTCTGCCCCAGTC
TGAGCCAGTGAGGGGTAGCTTTTTTAAACCATTTATCTAGATGGAGGAGGCACTGATGCT
TGTAACCTCGGAAGAGGCCTACACCCAAGGGCTAGGAATTTTATTTTTCTCTTCTCAC
CAGGTGTCTGCATGTGTGTGTGGGTGTGAATGTGTATACATGCCCATCAGCATTTAGTCA
CATGTCTGAATTTCTGTGTCCAGACGAGCCCCATCAAACCTAGTTGGGAAGGGCCCCAGTG
ACCAAGTGTATAAGCATCCCTTGAAGAGGGATTGGGGCAGGGGAGGCAGAAGGGGCTCTC
CAGACCCCTTTTTCATGATGACCCACTCCAAGATATTATGTGTAAATGTGTTATTATGT
ATATGGGTAAAGATGTACAAATATATGTCTCTTTGTAGCAGATATGATTTTATATTTAT
AATGTGCATCAACATGTGAAAGCAATCTAGGTCACTAGCACAGAGGAAGTTGCCAGGAAG
GTGGCTTCAGCACCTCCAGGTGGTTCTGGGTGTCTGTGCTGTGAGGGGTAGAACGGGAGG
CTGCTGAAGTGAGTAGCTGAGCAGCTGGAGCCATCCCAAGCATCAGTGTCTCAGAGTCCT
CCTCGCCCCCTTCTTCACCCCGCCCCCAACCCCCAGACTTTCTGGAGCATCTGCCCTT
TGCTCCTAGCAGCCTCCCCAGGAAGGGACTGCAGAGGCGGGCAAGCCCTCTCTATGTGTT
TTTATCCCCACCTTCCCCGGAATCTGGGGAGGGCTTTTGTGTTTTACGTTTTCAAGTTCAG
CATTGTATTCCGACAGAAGCTGTGACTGAAGACTCAGTGCCAAGGAAGGGGCTTCTTGT
GTGTCCCTCGGGTTTGGGGCTCTTCTCAGAGAGCAGCACTCCATATCCCTTACTGTCAAC
TTCACCTCCCCACACAGCTCATGAGATGTGTGACCCCTGTTTGAGTTTGGTATTTGGTAG
TGGAGGGTGGGGGGATGGGGGCCAGCAGCTGTCTCTCTGGGAAGCCGAGCAGTGTCC
CTGGTGGGTAAACCCCTCAAGTCTCTTGGCAGTGAGGCCCCACCACATCGGTGTGAGTT
AGGTTTCTCATCTGGAGCTGTTTCTCAGGCATTCTTCCAACCTCTTCTTTTCCCCTT
CGGTGTGCCTCAGTGGTCTCCTTCATAGAGTGAGAGGGCTTGAGACCCTCCCTCAACCGG

FIGURE 1 (CONT'D)

ACTAATTAAGAAAGACACTTGTGTTCCCAAGTGGTGGTTTTATTTTTTTAGTTTTTATG
TTTGTATGGGAAATTGTGGATAAAGTGAAAAGAATTGTAAATAAATGGTGTATTTCTCTCC
TCC

Gene 492. >ENST00000287218 cDNA sequence

ATGGGAGACGCTGGGAGCGAGCGCAGCAAAGCGCCAGCCTGCCGCCTCGCTGTCCCTGC
GGCTTCTGGGGGTCCAGCAAGACTATGAATCTCTGTTCCAAATGCTTTGCTGATTTTCAA
AAGAAACAGCCAGACGATGATTCCGCTCCAAGTACAAGTAACAGCCAATCAGATTTGTTT
TCCGAAGAGACCACCAGTGACAACAACAATACCTCGATAACCACGCCAACTCTTAGTCCC
AGCCAGCAGCCGCTTCCGACAGAACTGAATGTAACCTTACCAGAGTAAAGAGGAGTGTGGG
CCATGCACAGACACAGCTCATGTCTCATTAATCACACCAACAAAAAGATCCTGTGGTACA
GATTCACAGTCTGAGAATGAGGCTTACCAGTAAAACGGCCACGACTACTTGAGAATACG
GAACGGTCCGAGGAAACAGTGCATCTAAACAGAAGAGTGCACGTCGGTGCTTCCAGTGC
CAAACCAAACCTGGAGCTGGTGCAGCAGGAATTGGGATCGTGTGCTGCGGTTATGTGTTCT
TGTATGTTACATCGCCTCCCCGAGCAGCAGACTGCACATTGACCACATGGGCCGTGGC
CGGGAGGAAGCCATCATGAAAATGGTGAAGCTGGACCGAAAGTGGGGCGCTCCTGCCAG
CGCATCGGGGAGGGGTGCTCCTGA

Gene 493. >ENST00000317631 cDNA sequence

CGTCTGGCCGTGAGATGTTTTCGGGAGCCGGGTCTCTCCGCTGCAGACATGACGAAGGGC
CTTGTTTTAGGAATCTATTCCAAAGAAAAAGAAGATGATGTGCCACAGTTCAAGTGCA
GGAGAGAATCTTGATAAATTGATAGCTGGAAAGCTGAGAGAGACTTTGAACATATCTGGA
CCACCTCTGAAGGCAGGCAAGACTCGAACTTTTATGGTCTGCATCAGGACTTCCCCAGC
GTGGTGCTAGTTGGCCTCGGCCAAAAGGCAGCCAGAATCGACGAACAGGAAAACCTGGCAG
GAAGGCAAAAGAAAACATCAGAGCTGCTGTTGCAGCAGGATGCAGGCAGATTCAAGACCTG
GAGCTCTCTTCCGTGGAGGTGGATCCCTGTAGAGATGCTCAGGCTGCTGAGGAGGGCGCG
GTGCTTGGTCTCTATGAATACGATGACCTAAAGCAAAAAAGAAGATGGCTATGTGGTG
AAGCTCTATGGAACCTGGGGATCAGGAGGCCTGGCAGAAAGGAGTCCTGTTTGCTTCTGGG
CAGAACTTGGCAATGGAGACGCCAGCCAGCGAGATGATGCCAACCAGATTTGCCGAAATT
ATTGAGAAGAATCTCAAAGCGCTAGTAGTACCGAGTTTCATATCAGACCCAGGTCTTGG
ATTGAGGAACAGGCAATGGGATCATTCTCAGTGTGGCCAAAGGATCTGACGAGCCCTCA
GTCTTCTTGGAATTTCACTACATAGGCAGCCCCAATGCAGACAAACCACCCCTTTTTGTT
GGGAAAGGAATTACCTTTGACAGTGGTGGTATCTCCATCAAGGCTTCTGCAAATATGGAC
CTCATGAGGGCCGACATGGGAGGAGCTACAACTATATGCTCAGCCATTGTGTCTGCTGCA
AATCTCAGTTTGCCATTAAATATTATAGGTCTGCCCTCTGTGAAAACATGCCCAGCGGC
AAGGCCAACAAAGCTGGGGGATGTTGTTAGAGCCAGGAACAGGAAGACCATCCAGGTGGT
AACACTGATGCTGAGGGGAGGCTCATACTGGCTGATGCGCTCTGTTACGTGCACACATTT
AACCCGAAGGTCATCCTCAATGCCACCACCTTAACAGGTGTCATAGATGTAGCTTTGGGG
TCAGGTGCCACTGGGGTCTTTACCAATTATCCTGGCTCTGGAACAAGCTCTTCGAGGCC
AGCATTGAAACAGGGGACCGTGTCTGGAGGATGCCTCTCTTCAAACATTGTACAAGACAG
GTTGTAGATTGCCAGCTGGCTGATGTTAACAACATTGGAAAATATAGATCTGCGGGAGCA
TGACATCTGCGGCATTCTGAAAGAATTCTGTGACTCATCCTAAGTGGGCACATTTAGAC
ATAGCAGGTGTGATGACCAACAAAGATGAGGTTCCCTATCTATGGAAAGGCATGACCGGG
AGGCCACAAAGGACTCTCATAGAGTTCTTACTTCGTTTCAGTCAAGACAATGCTTAG

Gene 494. >ENST00000314952 cDNA sequence

ATGCTATTCAATTGTCTATCAGTGTGGGGGCACAATATATTTTAGTTTAAGGTGCTTGATG
AACACAATGATTACATGGACCCTCCATGTCAGCCTTGGAAGTTGTGATTCTGAGGCTGGG
AAGCTGGACTATCTTTGGAAGCTAAATTTGGAAGTGAAAGGGGGATGTAGGATATGA

Gene 495. >ENST00000301990 cDNA sequence

ATGCAGAAGCATTACACGGTGGCCTGGTTTCTTTACTCAGCCCCTGGGGTAGATCCCAGC
CCCCCATGTAGGTCCCTTGGCTGGAAAAGGAAGAGGGAGTGGTCAGATGAATCTGCGGAG
GAGCCGGAGAAGGAGCTCGCCCCCTGAGCCTGAGGAGACCTGGGTAGTGGAGATGCTGTGT
GGGCTCAAGATGAAGCTGAAGCAACAGCGAGTGTACCCATCCTCCCTGAGCACCACAAG
GGCTTCAACAGTCAGCTTGCCCCCTGGGGTAGATCCCAGCCCCCGCATAGGTCTTTTGC
TGGAAAAGGAAGATGGAGTGGTGGGACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGG
AAGGTGCTCGCCCCCTGAGCCTGAGGAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAG

FIGURE 1 (CONT'D)

ATGAAGCTGAAGCGACGGCGAGTGTGCTCGTCTCCCTGAGCACCACGAGGCCTTCAAC
 AGGCTGCTTGAGGATCCTGTATTAAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTG
 TCGGACAAGTATCTCCTGGCTATGGTCATAGCGTATTTAGCCGGGCCGGCTTCCCCTCC
 TGGCAATACCAACGCATTCAATTTCTTCTGGCTCTCTACCTGGCCAATGACATGGAGGAG
 GACGACGAGGACTCCAAAACAAACATCTTCCACTTCCTGTATGGGAAGAACCGCTCTCGC
 ATACCCCTTGCTCCGTAAGCGTTGGTTCCAGTTAGGCCGCCGTTTCATGAACCCGAGGGCC
 AGGAAGAACCGCTCTCGCATACCCCTTGCTCCGTAAGCGTCGGTTCAGTTAGGCCGTTCC
 ATGAACCTGAGGGCCAGGAAGAACCGCTCTCAGATAGTCTGTTCAGAAAACGTCGGTTC
 CAGTTCTTCTGTTCCATGAGCGGCAGGGCTTGGGTTTCCCGGAGGAGTTGGAGGAGATC
 CAGGCTTATGACCAGAGCACTGGGTGTGGGCGCGAGATCGCGCTCGCCTTTCCTAGAGC
 TCCAGGGACCGTGGAGGCCTGAGGTCATCGGCCTGAGAGAAGAACACCGGACCCAGGGGA
 GATGTGGATTTTTCAGCAGGAACCTTATTCCAATGCTAATGGCAGACACCAGGAAGGAGGA
 GAGGAACCATTTGTGCAGATCATCTAGAAGAACCTGGACCATTCTTGATGGAGCTGAATA
 CAGTGATCACGTTGTCTCTCTAGGAGCAGGGGTGGGGGGAGGGGGGTGGGGTCTTCTAG
 GAGTCTTGGAGAAAAGTAAGAAAACAGGAGTGTTCAGTTCCACCCTTTCCTGCAGCA
 CCACCACCTTTCTATATTGCTGAATTCCAACCTCCCTGGGGCGGAACCTGGAGGTGCTG
 TTTCTTATGGACTTGGTTACCAAGTCCAGAAGCATTGAAGGCACAATGCAGGGGCTCA
 GATTGGCACAGATTTCTTCTGTGAAATATCAGTGCCACAGATTGTAACAGATAGCTTCAT
 GCACACTCTGCATTTTATTGGTTTGGTTTGGAAAATGTTGGCCATTGAATTATTATAGAT
 TTATTTCAAATAGTTTGGAAATTGTTGTACTTTTGAACATGCTGTTCTGTAGTTTTT
 TGATGAGAGTTATAGTTGTTATATATACATAAAGATAATTTCTTTTCAATTTTAAGAGA
 CAATCTTTTTATCCTAAATATTTTATTATCTTTAAATTTCTTTCTGTATTATTATATGT
 GCTCCTGAAGCGAGCACTCTTTTATCTATGATACTTCATAATAATCTCTTCTATTTAT
 AGCTATTGGTAGTTCCCCACCAAAAAAACATAATTCTGGTGATAGAAATTTTATTT
 GCTGTTTAGGTTTGTGACTGAATTGTGAGAATTGAGTTGTGATTTTAAACATGTCTCAGA
 TATATATACTAACACGTCTAATATATACTATCTATTTTATTGGTTTATTTTGAACCAAT
 GGGTATAGAATTATTTAAATATTATTTTATTGAAATATTTATTAAATATATTTATT
 TAAATATTATTACTTGAAATATTATTTTAAATATTTTGAATACTGCTATTTTGAATA
 GATGCTGTTTCTATAAAGCTGTGTGATGGGTGTTATACTGTTATATACACATACGTATA
 ATTTTGCTTTCTTTTAAAGAGAGGATTCTTTTCATCCTAAATCTTTTACCTTTCAATCT
 TTGTATCTATTATTACACGTGTTGCTGAAGGGAGCATGGTTTTTATCTGTGATACTTAGT
 TAACATATATATTACATTTATAGCTATGTAGTAGTTCCCTAAATCTTGTAAAAATAAA
 TTTTATTG

Gene 496. >ENST00000310324 cDNA sequence

ATGACTCTTAACGAGCATGCTGCCTTCAAGCATCTGTTTAAACAAAGCACATCTTGCACCG
 CCCTTAATCCATTTAACCCCTGAGTGGACACAGCACATGTTTCAGAGAGCACAGGGTTGGG
 GGTAAAGGTCAAGATCAACAGGATCCCAAGGCAGAAGAATTTTCTTAGTGCAGAACAAA
 ATGAAAAGTCTCCCATGTCTACTTCTTTCTACACAGACACGGCAACCATCCGATTTCTCA
 ATCTTTTCCCCACCTTTCCCGCCTTTCTATTCCACAAAGCCGCCATTGTATCTTGGCCC
 GTTCTCAATGAGCTGTTGGGCAACCTCCAGACGGGGTGGTGGCCGGGCAGAGGGGCTC
 CTCACTTCCAGTAG

Gene 497. >ENST00000315790 cDNA sequence

TTTTTTTTTGGAGACAGAGTCTTTCTCCGTCGCCAAGCTGGAGTACAGTGGGGTTATCTC
 GGCTCACTGCAACCTCCCCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCGGAGTA
 GTTGGGGCTACAGGTGTACACCACACGCTGGGCTAATTTTGTATTTTGTAGTAGAGATG
 GGGTTTCAACATGTTAGCCAGGCTGGTCATGAACTCCTGGCCTCAAGTGATCGGCCCGCC
 TCAGCCTCCAGAGTGCTGGGATTACAGGCATGAGCCACCTTGCTGCTGG

Gene 498. >ENST00000248600 cDNA sequence

GCCACTTCCGGGAGTCGGAAAGGAAAGCTGTGGGACCATCCTGGCAACCCCGGTGTTTGG
 CTGGGTCTAGCGTAGCCGTCTGTGTGGCCGGTGGGGGACCTGCGGTGCGAGTGGGAGGG
 CCAGTCTGCACCAAGAGGTGGAAGAGGACGGGCTTTAGGCTGGAAGCGCCTTAGAGGAG
 CCATTTTTCAGGTGGGGCCCAGGCAGAGGCTCCGACAGGGAGCCTGGCCATAGTCGCG
 CAGCCGGGGAGGTGGAGCGCGTCCAGACCCGAGCCCCGACCTCAGCCAAACCCATTCC
 TTCTGCCCTTGGAGGCCAGAGGGGACTCTGAGCTCCGGAAAGGATGCCTGGTTTGCTTTT

FIGURE 1 (CONT'D)

ATGTGAACCAACAGAGCTTTACAACATCCTGAATCAGGCCACAAAACCTCTCCAGATTAAAC
AGACCCCAACTATCTCTGTTTATTGGATGTCCGTTCAAATGGGAGTATGACGAAAGCCA
TGTGATCACTGCCCTTCGAGTGAAGAAGAAAAATAATGAATATCTTCTCCCGGAGTCTGT
GGACCTGGAGTGTGTGAAGTACTGCGTGGTGTATGATAACAACAGCAGCACCTGGAGAT
ACTCTTAAAGATGATGATGATGATTGAGACTCTGATGGTGTATGGCAAAGATCTTGTGCC
TCAAGCAGCCATTGAGTATGGCAGGATCCTGACCCGCTCACCCACCAACCCCGTCTACAT
CCTGAAAGGGGGCTATGAGCGCTTCTCAGGCACGTACCACTTTCTCCGGACCCAGAAGAT
CATCTGGATGCCTCAGGAACCTGGATGCATTTTCAAGCCATACCCATTGAAATCGTGCCAGG
GAAGGTCTTCGTTGGCAATTTTCAAGCCTGTGACCCCAAGATTGAGAAGGACTTGAA
AATCAAAGCCCATGTCAATGTCTCCATGGATACAGGGCCCTTTTTTGCAGGCGATGCTGA
CAAGCTTCTGCACATCCGGATAGAAGATTCCCCGGAAGCCAGATTCTTCCCTTCTTACG
CCACATGTGTCACTTCATTGAAATTCACCATCACCTTGGCTCTGTCACTTCTGATCTTTTC
CACCCAAGGTATCAGCCGAGTTGTGCGCCATCATAGCCTACCTCATGCATAGTAACGA
GCAGACCTTGAGAGGTCTGGGCCTATGTCAAGAAGTGCAAAAACAACATGTGTCCAAA
TCGGGGATTGGTGAGCCAGCTGCTGGAATGGGAGAAGACTATCCTTGGAGATTCCATCAC
AAACATCATGGATCCGCTCTACTGATCTTCTCCGAGGCCACCGAAGGGTACTGAAGAGC
CTCACCTGGGGGCATTTTGTGGGTGGAGGGCCAGAGTGTGTATACCCAGGCTTGTCTGGA
AGGAGAAGGCCTTTGCTGCCTGAAAGTCTCATGTT

Gene 499. >ENST00000315758 cDNA sequence

GGCGCTGGGCAGTGTGGAGGTCTGTTGGAGTCACTTCCCCGTCACCAGCTCCTGTGCCTGC
CAGTCGGTGCCCCCTCCCGCTCCAGCCATGCTCTCCGCCCTCGCCCGGCCTGCCAGCGCTG
CTCTCCGCCGAGCTTCAGCACCTCGGCCAGAACAAATGCTAAAGTAGCTGTGCTAGGGG
CCTCTGGAGGCATCGGGCAGCCACTTTCACTTCTCCTGAAGAACAGCCCCCTTGGTGAGCC
GCCTGACCTCTATGATATCGCGCACACACCCGAGTGGCCGAGATCTGAGCCACATCG
AGACCAAAGCCGCTGTGAAAGGCTACCTCGGACCTGAACAGCTGCCTGACTGCCTGAAAG
GTTGTGATGTGGTAGTTATTCCGGCTGGAGTCCCAGAAAGCCAGGCATGACCCGGGACG
ACCTGTTCAACACCAATGCCACGATTGTGGCCACCCTGACCGCTGCCTGTGCCAGCACT
GCCCGGAAGCCATGATCTGCGTCAATTGCCAATCCGGTTAATTCCACCATCCCCATCACAG
CAGAAGTTTTCAAGAAGCATGGAGTGTACAACCCCAACAAAATCTTCGGCGTGACGACCC
TGGACATCGTCAGAGCCAACACCTTTGTTGCAGAGCTGAAGGGTTTGGATCCAGCTCGAG
TCAACGTCCCTGTCACTGGTGGCCATGCTGGGAAGACCATCATCCCCCTGATCTCTCAGT
GCACCCCAAGGTGGACTTTCCCCAGGACCAGCTGACAGCACTCACTGGGCGGATCCAGG
AGGCCGGCAGGAGGTGGTCAAGGCTAAAGCCGGAGCAGGCTCTGCCACCCTCTCCATGG
CGTATGCCGGCGCCGCTTTGTCTTCTCCCTTGTGGATGCAATGAATGGAAAGGAAGGTG
TTGTGGAATGTTCTTCGTTAAGTCAAGGAAACGGAATGTACCTACTTCTCCACACCGC
TGCTGCTTGGGAAAAAGGGCATCGAGAAGAACCTGGGCATCGGCAAAGTCTCCTCTTTTG
AGGAGAAGATGATCTCGGATGCCATCCCCGAGCTGAAGGCCTCCATCAAGAAGGGGGAAG
ATTTCTGTGAAGACCTGAAGTGAAGCGCTGTGACGGGTGGCCAGTTTCTTAATTTATGA
AGGCATCATGTCACTGCAAGCCGTTGCAGATAAACTTTGTATTTTAATTTGCTTTGGTG
ATGATTACTGTATTGACATCATCATGCCTTCCAAATTGTGGGTGGCTCTGTGGGCGCATC
AATAAAAGCCGTCCTTGATTTTATTTTTCAAGGTCCCTTCTGT

Gene 500. >ENST00000316266 cDNA sequence

CACCAGGAGGAAATAATTCAAGTTGGCCATGCAGCTGAGACACATTGGGGACAAACATT
GATCATAGGATGGTTTCAGAGGATCTTCAACAGGATGGCAGAGATGCACTAGATCATTTT
GTCTTCTTTTCTTTAGAAGAGTTCAAGTGGTCAAGTTCTGTTTTTCTTTTACCCTCTGAGAA
CATGAATCCCACTGGGACAGATGGGAAGAACACCCCTTCTCCGTCTCCCTCTTTTGTAC
CCATCACTGTTGGTCTACACCCAGTTTGTGGAAGAACTGCGGGTTACAGAGCCATTGTGTC
TCTTCGGAGGAGCTAGCTATGAGATGTCTGCGATCACATCACGGTAAAGCCCAAGGAGTA
ATTAGGACCCAGGAAGCCTTGTGCCCAGAAAACACCAGCGCTGTGGATGGTCCAGGG
CTCCTTGTGAGGAAACCTTGAACATTTCTTCCAGGAATGAAAGAGAACCTCGTCCTCAA
ACTAAAGGCCACAGAAATGGGCACTACCTCCTGGCCCACTCCCTGGGCACCATGCCCTCT
GGTGACCTGTTGGCTCCACTCTTGTCACTCATGTCCAGATCTGCAGTGCCAGCTTCTCCT
TCTCGGTGACATGTCACTCCCTGCCCAATCCTGGCTCCAACCCTCTCTGGAATTCGA

FIGURE 1 (CONT'D)

AGTGAAACATTTGTCTCTAATACTCAAATTCAACATATGGCTCATCTCATCTACCTTCCC
ATTTCCATGCCTAGAGGCCCCACTACTACCACTAGCACCGTTGGGTGTTTCTTCTCAGG
CTCTGATTCTACAACATTTACGTTCTTTTCTCACCTTTGATCCCCTCACTCCTCTGTGAC
CCCCTTCAAGTCTTCTTCCACTCCAGTGTTTTCCCATACCACTCGACCCTGCTCGAA
GGTATCTTTCCCTGCTCTGTCTATCCTCTTTTAGGCATGCCTGCTTAAAATCGGGAGTGCT
TAGTCCTTGGCCAACAGTCCTGCCTTCTAGAAGAATGTAAGACCTGAAAGAGTTATGAAT
CTATCACTAGGCAAAAACCTTCTCTTTTCTATTGCTGGATGGTTTTGCTATTATTGGTTG
GTGGGCCCTTTGCCTGTGGAATGTATTTCACTCATTCTCTCTGACGCTGTTAGGCAGT
TCTTTACCTGCATGCTTCTTCTTTTACCTTTTTGTCTACCTCATAGTCCCTCTCTCCCC
TCCTTTAAAAGAATTATAAATATTAGGAAAGCTTGTTGTTATAAATTAAAAGTTTACATA
TGTATCTTGAGTTCTTCATAGGGGAAGTGTTATTTTAAAAAATTCTAAAAATGAAATAAA
TATTGTTATTTTATTGAGCATGAAA

Gene 501. >ENST00000301956 cDNA sequence

ATGTGTCTTGGCGGCCTAGACTAGGCCGTCGCTGTATGGTGAGCCCCAGGGAGGCGGAT
CTGGGCCCCCAGAAGGACACCCGCCTGGATTTGCCCCGTCGGCCCCGGGCCCCCTCGGGAG
CAGAACAGCCTTGGTGAGGTGGACAGGAGGGGACCTCGCGAGCAGACGCGCGCGCCAGCG
ACAGCAGCCCCGCCCCGGCCTCTCGGGAGCCGGGGGGCAGAGGCTGCGGAGCCCCAGGAG
GGTCTATCAGCCACAGTCTCTGCATGTTTCCAAGAGCAACAGGAAATGAACACATTGCAG
GGGCCAGTGTCATTCAAAGATGTGGCTGTGGATTTACCCAGGAGGAGTGCGGCAACTG
GACCCTGATGAGAAGATAGCATACGGGGATGTGATGTTGGAGAACTACAGCCATCTAGTT
TCTGTGGGGTATGATTATCACCAGCCAAACATCATCATGGAGTGAGGTGAAGGAAGTG
GAGCAGGGAGAGGAGCCGTGGATAATGGAAGGTGAATTTCCATGTCAACATAGTCCAGAA
CCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCA
GTGGTACTGAGTCTAAGCACTGCAGTGAAGGAGTTAGTAGAAAAAGTCTGGATGCTGGT
GCCACTAATATTGATCTAAAGCTTAAGGACTATGGAGTGGATCTCATTGAAGTTTCAGAC
AATGGATGTGGGGTAGAAGAAGAAAACCTTTGAAGGCTTAATCTCTTTTCACTCTGAAACA
TCACACATGTAAGATTCAAGAGTTTGCCGACCTAACTGAAGTTGAAACTTTTCGGTTTTCA
GGGGGAAGCTCTGAGCTCACTGTGTGCACTGAGCGATGTCACCATTTTACCTGCCACGC
GTCGGTGAAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGGAAAC
CCCCACCCCCACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTACC
TGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAG

Gene 502. >ENST00000248606 cDNA sequence

CGAGCATCGCATAGCCTGCGGGGCTGGATGCTGACCGCCCGGGCCAGCACCTAGGCGGAC
GCGGAGCTGTGCAGACCAGGGTTTCGCGCGGGCCGGGTGGAGGCTCAAGCGGGGACCCCGG
AGCGTGAGCCCCGGAGTCGGCGGCGCTGGGGCCAGAGGGGCGGGAGGGAGTCGGCTGAG
GTGGCGGCGGAGGCGAAGTGCGGCGGAGGCGAAGGGGCGGCGGGAACCGGGCCTGGCCC
GTATGTGTCTTGGCGGCCTAGACTAGGCCGTCGCTGTATGGTGAGCCCCAGGGAGGCGG
ATCTGGGCCCCCAGAAGGACACCCGCCTGGATTTGCCCCGTCAGGCCCGGCCCGGGCCCCCT
CGGGAGCAGAACAGCCTTGGTGAGGTGGACAGGAGGGGACCTCGCGAGCAGACGCGCGCG
CCAGCGACAGCAGCCCCGCCCCGGCCTCTCGGGAGCCGGGGGGCAGAGGCTGCGGAGCCC
CAGGAGGGTCTATCAGCCACAGTCTCTGCATGTTTCCAAGAGCAACAGGAAATGAACACA
TTGCAGGGGCCAGTGTCATTCAAAGATGTGGCTGTGGATTTACCCAGGAGGAGTGCGCGG
CAACTGGACCCCTGATGAGAAGATAGCATACGGGGATGTGATGTTGGAGAACTACAGCCAT
CTAGTTTCTGTGGGGTATGATTATCACCAGCCAAACATCATCATGGAGTGAGGTGAAG
GAAGTGGAGCAGGGAGAGGAGCCGTGGATAATGGAAGGTGAATTTCCATGTCAACATAGT
CCAGTACAGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTT
GCTCTGGGCCAGTGGTACTGAGTCTAAGCACTGCAGTGAAGGAGTTAGTAGAAAAAGTCT
TGGATGCTGGTGCCACTAATATTGGATCTAAAGCTTAAGGACTATGGAGTGGATCTCATT
GAAGTTTTCAGACAATGGATGTGGGGTAGAAGAAGAAAACCTTTGAAGGCTTAAGTCTTAC
TTTACAGTCTCTTTTCACTCTGAAACATCACACATGTAAGATTCAAGAGTTTGCCGACCT
AACTGAAGTTGAAACTTTTCGGTTTTTCAGGGGAAGCTCTGAGCTCACTGTGTGCACTGAG
GCGATGTACCATTTTCTACCTGCCACGCGTCGGTGAAGGTGGGACTCGACTGGTGTGTTG
ATCACGATGGGAAAATCATCCAGGAAACCCCCACCCCCAGAGGGACCACAGTCA
GCGTGAAGCAGTTATTTTCTACGCTACCTGTGCGCCATAAGGAATTTCAAAGGAATATTA

FIGURE 1 (CONT'D)

AGAAGGACGTGCCTGCTTCCCTTCGCCTTCTGCCGTGA

Gene 503. >ENST00000320938 cDNA sequence

ATGAAGCAGGTGCCCCAACCCTGCCCCAAGGTGCTGAGCCGGCGCGGGGTCGGCGCTGGG
CTGGAGGCGGCGGAGCGCGAGAGCTTCGAGCGGACTCAGACTGTGAGCATCAATAAGGCC
ATTAATACGCAGGAAGTGCTGTAAAGGAAAAACACGCCAGAAATATCCTTTTGGATAGC
CCATCCGTTGTTTTCCATAACCCCCCTCACCGTGCATACTGGGCACCCACCATGAGAAA
GGGGCACAGACCTTCTGGTCTGTTGTCAACCGCTGCCTCTGTCTAGCAACGCAGTGCTC
TGCTGGAAGTTCTGCCATGTGTTCCACAACTCCTCCGAGATGGACACCCGAACGTCTCTG
AAGGACTCTCTGAGATACAGAAATGAATTGAGTGACATGAGCAGGATGTGGGGCCACCTG
AGCGAGGGGTATGGCCAGCTGTGTCAGCATCTACCTGAACTGCTAAGAACCAAGATGGAG
TACCACACCAAAAATCCCAGGTTCCCAGGCAACCTGCAGATGAGTGACCGCCAGCTGGAC
GAGGCTGGAGAAAGTGACGTGAACAACCTTTTCCAGTTAACAGTGGAGATGTTTGACTAC
CTGGAGTGTGAACTCAACCTCTTCCAAACAGTATTCAACTCCCTGGACATGTCCCGCTCT
GTGTCCGTGACGGCAGCAGGGCAGTGCCGCCTCGCCCCGCTGATCCAGGTCATCTTGAC
TGCAGCCACCTTTATGACTACACTGTCAAGCTTCTCTTCAAACCTCACTCCTGCCTCCCA
GCTGACACCCTGCAAGGCCACCGGGACCGCTTCATGGAGCAGTTTACAAAGTTGAAAGAT
CTGTTCTACCGCTCCAGCAACCTGCAGTACTTCAAGCGGCTCATTGAGATCCCCAGCTG
CCTGAGAACCACCCAACCTTCTGCGAGCCTCAGCCCTGTGAGAACATATCAGCCCTGTG
GTGGTGATCCCTGCAGAGGCCTCATCCCCGACAGCGAGCCAGTCTAGAGAAGGATGAC
CTCATGGACATGGATGCCTCTCAGCAGAATTTATTTGACAACAAGTTTGATGACATCTTT
GGCAGTTCATTGAGCAGTGATCCCTTCAATTTCAACAGTCAAAATGGTGTGAACAAGGAT
GAGAAGGACCACTTAATTGAGCGACTATACAGAGAGATCAGTGGATTGAAGGCACAGCTA
GAAAACATGAAGACTGAGAGCCAGCGGGTTGTGCTGCAGCTGAAGGGCCACGTGAGCGAG
CTGGAAGCAGATCTGGCCGAGCAGCAGCACCTGCGGCAGCAGGCGGCCGACGACTGTGAA
TTCCTGCGGGCAGAACTGGACGAGCTCAGGAGGCAGCGGGAGGACACCGAGAAGGCTCAG
CGGAGCCTGTCTGAGATAGAAAGGAAAGCTCAAGCCAATGAACAGCGATATAGCAAGCTA
AAGGAGAAGTACAGCGAGCTGGTTTCAGAACCACGCTGACCTGCTGCGGAAGAATGCAGAG
GTGACCAAAACAGGTGTCCATGGCCAGACAAGCCCAGGTAGATTTGGAACGAGAGAAAAAA
GAGCTGGAGGATTCTGTTGGAGCGCATCAGTGACAGGGCCAGCGGAAGACTCAAGAACAG
CTGGAAGTTCTAGAGAGCTTGAAGCAGGAACCTTGCCACAAGCCAACGGGAGCTTCAGGTT
CTGCAAGGCAGCCTGGAACTTCTGCCCAGTCAGAAGCAAACCTGGGCAGCCGAGTTTCGCC
GAGCTAGAGAAGGAGCGGGACAGCCTGGTGAGTGGCGCAGCTCATAGGGAGGAGGAATTA
TCTGCTCTTTCGGAAGAACTGCAGGACACTCAGCTCAAACCTGGCCAGCACAGAGGCAAGA
TCTATGTGCCAGCTTGCCAAAGACCAACGAAAAATGCTTCTGGTGGGGTCCAGGAAGGCT
GCGGAGCAGGTGATACAAGACGCCCTGAACCAAGCTTGAAGAACCCTCCTCTCATCAGCTGC
GCTGGGTCTGCAGATCACCTCCTCTCCACGGTCACATCCATTTTCAGCTGCATCGAGCAA
CTGGAGAAAAGCTGGAGCCAGTATCTGGCCTGCCCAGAAGACATCAGTGGACTTCTCCAT
TCCATAACCCTGCTGGCCCACTTGACCAGCGACGCCATTGCTCATGGTGCCACCACCTGC
CTCAGAGCCCCACCTGAGCCTGCCGACTCACTGACCGAGGCCTGTAAGCAGTATGGCAGG
GAAACCTTCGCCTACCTGGCCTCCTGGAGGAAGAGGGAAGCCTTGAGAATGCCGACAGC
ACAGCCATGAGGAACTGCCGTGAGCAAGATCAAGGCCATCGGCGAGGAGCTCCTGCCCAGG
GGACTGGACATCAAGCAGGAGGAGCTGGGGGACCTGGTGGACAAGGAGATGGCGGCCACT
TCAGCTGCTATTGAAAAGTCCACCGCCAGAATAGAGGAGATGCTCAGCAAATCCCGAGCA
GGAGACA CAGGAGTCAAATTGGAGGTGAATGAAAGGATCCTTGGTTGCTGTACCAGCCTC
ATGCAAGCTATTGAGGTGCTCATCGTGGCCTCTAAGGACCTCCAGAGAGAGATTGTGGAG
AGCGGCAGGGGTACAGCATCCCCTAAAGAGTTTATGCCAAGAACTCTCGATGGACAGAA
GGACTTATCTCAGCCTCCAAGGCTGTGGGCTGGGGAGCCACTGTGATGGTGGATGCAGCT
GATCTGGTGGTACAAGGCAGAGGGAAATTTGAGGAGCTAATGGTGTGTTCTCATGAAATT
GCTGCTAGCACAGCCCAGCTTGTGGCTGCATCCAAGGTGAAAGCTGATAAGGACAGCCCC
AACCTAGCCCAGCTGCAGCAGGCCTCTCGGGGAGTGAACAGGCCACTGCCGGCGTTGTG
GCCTCAACCATTTCGGCAAATCACAGATCGAAGAGACAGACAAATGGACTTCTCAAGC
ATGACGCTGACACAGATCAAACGCCAAGAGATGGATTCTCAGGTTAGGGTGCTAGAGCTA
GAAAATGAATTGCAGAAGGAGCGTCAAAAAGTGGGAGAGCTTCGGAAAAAGCACTACGAG
CTTGCTGGTGTGCTGAGGGCTGGGAAGAAGGAACAGAGGCATCTCCACCTACACTGCAA

FIGURE 1 (CONT'D)

GAAGTGGTAACCGAAAAAGAATAG

Gene 504. >ENST00000229784 cDNA sequence

GGAACCGCCGCGGTATCCGCGTCCGCGAGCGCCGAGCCAGGCGAGAGCCGTGTGGGAT
 CCCAGCGCCCGCACTCCGCCCCCGCCAAGGAGCCAGGAATGGCACAAGTAGAGAGGAGC
 GCCATCTCTGGCTTCAGCTCTAAGTCCAGGCGAACTCATTTCGATATGATGTTAAGCGT
 GAAGTATACAATGAGGAGACCTTTCAACAGGAACACAAAAGGAAGGCCTCCTCTTCTGGG
 AACATGAACATCAACATCACACCTTCAGACACACGTCAGTGCCGCTGCTCATGGCAC
 AGGTTCCCTACGATGCGTGCTTACAATCTTTCCCTTCCTAGAATGGATGTGTATGTATCGA
 TTAAAGGATTGGCTTCTGGGAGACTTACTTGCTGGTATAAGTGTGGCCTTGTGCAAGTT
 CCCAAGGCCTGACACTTAGTTTGCTGGCAAGGCAACTGATTCTCCTCTCAACATCGCT
 TATGCAGCTTTCTGTTCTTCGGTAATCTATGTAATTTTTGGATCGTGTCAATCAATGTCC
 ATTGGTTCTTCTTCTGGTGAGTGTCTGTGATCAACGTTCTGAAAGTGAGCCCATTC
 AACACGGTCAACTGGTATGGGATCTTTCGTCAAGAATGAGTTTTTCGGCCCCCTCCTAC
 CTTATGGGCTATAATAAATCCTTGAGTGTGGTGGCAACCACAACCTTTTCTGACTGGGATT
 ATTCAGCTAATAATGGGCGTATTGGGTTTGGGCTTCATTGCCACTTACCTTCCGGAGTCT
 GCAATGAGTGCTTACCTGGCTGCTGTGGCACTTCATATCATGCTGTCCAGCTGACTTTC
 ATCTTTGGGATTATGATTAGTTTTCATGCCGGTCCCATCTCCTTCTTCTATGACATAATT
 AATTACTGTGTAGCTCTCCCAAAGCGAATTCACCAGCATTCTAGTATTTCTAACTGTT
 GTTGTGCTCTGCGAATCAACAAATGTATCAGAATTTCTTTCAATCAGTATCCATTGAG
 TTTCCCATGGAATTATTTCTGATTATTGGCTTCACTGTGATTGCAAACAAGATAAGCATG
 GCCACAGAAACCAGCCAGACGCTTATTGACATGATTCTTATAGCTTTCTGCTTCCTGTA
 ACACCAGATTTAGCCTTCTTCCCAAGATAATTTTACAAGCCTTCTCCTTATCTTTGGTG
 AGCTCCTTTCTGCTCATATTTCTGGGCAAGAAGATTGCCAGTCTTCACAATTACAGTGTC
 AATTCCAACCAGGATTTAATAGCCATCGGCCTTTGCAATGTGTCAGTTTCAATTTTCAGA
 TCTTGTGTGTTTACTGGTGCTATTGCTAGGACTATTATCCAGGATAAATCTGGAGGAAGA
 CAACAGTTTGCATCTCTGGTAGGCGCAGGTGTGATGCTGCTCCTGATGGTGAAGATGGGA
 CACTTTTTCTACACACTGCCAAATGCTGTGCTGGCTGGTATTATTCTGAGCAACGTCATT
 CCCTACCTTGAAACCATTTCTAACCTACCCAGCCTGTGGAGGCAGGACCAATATGACTGT
 GCTCTTTGGATGATGACATTCTCATCTTCAATTTTCTGGGACTGGACATTGGACTAATT
 ATCTCAGTAGTTTCTGCTTTCTTCATCACCACTGTTCTGTTCAACAGAGCTAAGATTCTT
 CTCCTGGGTCAAATCCCTAACACCAACATTTATAGAAGCATCAATGATTATCGGGAGATC
 ATCACCATTCTGGGGTGAAATCTTCCAGTGCTGCAGCTCAATTACATTTGTAAATGTT
 TACTACCTAAAGCATAAGCTGTTAAAAGAGGTTGATATGGTAAAGGTGCCTCTTAAAGAA
 GAAGAAATTTTCACTTGTGTTAATTCAAGTGACACCAATCTACAAGGAGGAAAGATTTGC
 AGGTGTTTCTGCAACTGTGATGATCTGGAGCCGCTGCCAGGATTCTTTACACAGAGCGA
 TTTGAAAATAAATGGATCCCGAAGCATCCTCCATTAACTGATTCACTGCTCACATTTT
 GAGAGCATGAACACAAGCCAACTGCATCCGAAGACCAAGTGCCATACACAGTATCGTCC
 GTGTCTCAGAAAAATCAAGGGCAACAGTATGAGGAGGTGGAGGAAGTTGGCTTCTAAT
 AACTCATCAAGAAACAGCTCACAGGACTGCCTGATGTGGCGAAAGCCAGGGGAGGAGA
 TCACTCATCCCTTACTCAGATGCGTCTCTACTGCCAGTGTCACACCATCATCCTGGAT
 TTCTCCATGGTACACTACGTGGATTACGGGGGTTAGTCGTATTAAGACAGATATGCAAT
 GCCTTTCAAAACGCCAACATTTTGATACTCATTGCAGGGTGTCACTCTTCATAGTCAGG
 GCATTTGAGAGGAATGATTTCTTTGACGCTGGCATCACCAAGACCCAGCTGTTCTCAGC
 GTTCACGACGCCGTGCTGTTTGCTTGTCAAGGAAGGTCATAGGCTCCTCTGAGTTAAGC
 ATCGATGAATCCGAGACAGTGATACGGGAAACCTACTCAGAAACAGACAAGAATGACAAT
 TCAAGATATAAATGAGCAGCAGTTTTCTAGGAAGCCAAAAAATGTAAGTCCAGGCTTC
 ATCAAGATCCAACAGCCTGTAGAAGAGGAGTCGGAGTTGGATTTGGAGCTGGAATCAGAA
 CAAGAGGCTGGGCTGGGTCTGGACCTAGACCTGGATCGGGAGCTGGAGCCTGAAATGGAG
 CCCAAGGCTGAGACCGAGACCAAGACCCAGACCGAGATGGAGCCCCAGCCTGAGACTGAG
 CCTGAGATGGAGCCCAACCCCAATCTAGGCCAAGAGCTCACACTTTTCTCAGCAGCGT
 TACTGGCCTATGTATCATCGTCTATGGCTTCCACCCAGTCTCAGACTCAGACTCGGACA
 TGGTCAGTGGAGAGGAGACGCCATCCTATGGATTCTACTCACCAGAGGGCAACAGCAAT
 GAAGATGTCTAGGAGATGAACTAGAAATAAGGGGTGAGATAATGCTGGCAAATCTCCTA
 CCCAAAAGGGGTCAATTGTCCAGAGACCTAGACTGGATACGAACTAGCAGTACTTCTT

FIGURE 1 (CONT'D)

CCTGACTGTGACTCCTACTACCTGCCAGCCTTCTTCCTTGCTCTGCGCTGGGATCATACT
 CCCAAATCACATTACTAAATGCCAACAATTATCTCTGAATTCCTATCCAGGCTCCCCTC
 ATTTACACCTTCAGCATATATTCTAGTCATGAATTTCTTCTTACACACCCACATCTCT
 GGGCTTTGTGCCAGACCATCTCTAACTTAATCCTCTCATCCCTGTTCCCCTTTCTCCAAA
 GAGATGAAGCTCAAATAAAATGTATAACTCTAGT

Gene 505. >ENST00000310888 cDNA sequence

GCTGGGAGACGCCTGGGCGCCGGGGGCTGCAGGTCCCAGGGCGGGGGCTGCGTCCGTAC
 CGGCAGGTACCCAGGTATGCCGAGAGCCAGGCACGCCGTGGGCACTCAGTCAGTATCTG
 TGAATGAATGAATGATGGTCGTCCCTGGGAGCTTATCTCTGAGGAATGGCACTACTAGA
 GAGGAGCGCCATCTCTGGCTTCAGCTCTAAGTCCAGGCGAACTCATTGCGATATGATGT
 TAAGCGTGAAGTATACAATGAGGAGACCTTTCAACAGGAACACAAAAGGAAGGCCTCCTC
 TTCTGGGAACATGAACATCAACATCACACCTTCAGACACCACTCCAGTGCCGCTGCTC
 ATGGCA CAGGTTCTACGATGCGTGCTTACAATCTTTCCCTTCCTAGAATGGATGTGTAT
 GTATCGATTAAAGGATTGGCTTCTGGGAGACTTACTTGCTGGTATAAGTGTTGGCCTTGT
 GCAAGTTCCCAAGGCCTGACACTTAGTTTTGCTGGCAAGGCAACTGATTCTCCTCTCAA
 CATCGCTTATGCAGCTTTCTGTTCTTCGGTAATCTATGTAATTTTTGGATCGTGTCACTA
 AATGTCCATTGGTTCTTTCTTCTGGTGAGTGCTCTGCTGATCAACGTTCTGAAAGTGAG
 CCCATTCAACAACGGTCAACTGGTCAATGGGATCTTTCTGCAAGAATGAGTTTTCGGCCCC
 CTCCTACCTTATGGGCTATAATAAATCCTTGAGTGTGGTGGCAACCACAACCTTTCTGAC
 TGGGATTATTAGATTATTGGCTTCACTGTGATTGCAAACAAGATAAGCATGGCCACAGA
 AACCAGCCAGACGCTTATTGACATGATTCTTATAGCTTTCTGCTTCTGTAAACACCAGA
 TTTTACGCTTCTTTCCCAAGATAATTTTACAAGCCTTCTCCTTATCTTTGGTGAGCTCCTT
 TCTGCTCATATTTCTGGGCAAGAAGATTGCCAGTCTTCAACAATTAAGTGTCAATTCCAA
 CCAGGATTTAATAGCCATCGGCCTTTGCAATGTGTCAGTTTCAATTTTTAGATCTTGTGT
 GTTTACTGGTGCTATTGCTAGGACTATTATCCAGGATAAATCTGGAGGAAGACAACAGTT
 TGCATCTCTGGTAGGCGCAGGTGTGATGCTGCTCCTGATGGTGAAGATGGGACACTTTTT
 CTACACACTGCCAAATGCTGTGCTGGCTGGTATTATTCTGAGCAACGTCATTCCCTACCT
 TGAAACCATTTCTAACCTACCCAGCCTGTGGAGGCAGGACCAATATGACTGTGCTCTTTG
 GATGATGACATTCTCATCTTCAATTTTCTGGGACTGGACATTGGACTAATTATCTCAGT
 AGTTTCTGCTTTCTTCATCACCACTGTTCTGTTCAACAGAGCTAAGATTCTTCTCCTGGG
 TCAAATCCCTAACACCAACATTTATAGAAGCATCAATGATTATCGGGAGATCATCAACAT
 TCCTGGGGTGAAATCTTCCAGTGCTGCAGCTCAATTACATTTGTAAATGTTTACTACCT
 AAAGCATAAGCTGTTAAAAGAGGTTGATATGGTAAAGGTGCCTCTTAAAGAAGAAGAAAT
 TTTTCTGCTTGTAAATTCAAGTGACACCAATCTACAAGGAGGAAAGATTTGCAGGTGTTT
 CTGCAACTGTGATGATCTGGAGCCGCTGCCAGGATTCTTTACACAGAGCGATTTGAAAA
 TAACTGGATCCCGAAGCATCCTCCATTAACTGATTCACTGCTCACATTTTGAGAGCAT
 GAACACAAGCCAACTGCATCCGAAGACCAAGTGCCATACACAGTATCGTCCGTGTCTCA
 GAAAAATCAAGGGCAACAGTATGAGGAGGTGGAGGAAGTTTGGCTTCTTAATAACTCATC
 AAGAAAAGCTCACCAGGACTGCCTGATGTGGCGGAAAGCCAGGGGAGGAGATCACTCAT
 CCCTTACTCAGATGCGTCTCTACTGCCAGTGTCCACACCATCATCCTGGATTTCTCCAT
 GGTACACTACGTGGATTACGGGGGTTAGTCGTATTAAAGACAGATATGCAATGCCTTTCA
 AAACGCCAACATTTTGATACTCATTGCAGGGTGTCACTCTTCCATAGTCAGGGCATTGGA
 GAGGAATGATTTCTTTGACGCTGGCATCACCAAGACCCAGCTGTTCTCAGCGTTCACGA
 CGCCGTGCTGTTTGCCTTGTCAAGGAAGGTCAAGGCTCCTCTGAGTTAAGCATCGATGA
 ATCCGAGACAGTGATACGGGAAACCTACTCAGAAAACAGACAAGAATGACAATTCAAGATA
 TAAAATGAGCAGCAGTTTTCTAGGAAGCCAAAAAATGTAAGTCCAGGCTTCATCAAGAT
 CCAACAGCCTGTAGAAGAGGAGTCGGAGTTGGATTTGGAGCTGGAATCAGAAACAGAGGC
 TGGGCTGGGTCTGGACCTAGACCTGGATCGGGAGCTGGAGCCTGAAATGGAGCCCAAGGC
 TGAGACCGAGACCAAGACCCAGACCGAGATGGAGCCCCAGCCTGAGACTGAGCCTGAGAT
 GGAGCCCAACCCCAAATCTAGGCCAAGAGCTCACTTTTCTCAGCAGCGTTACTGGCC
 TATGTATCATCGTCTATGGCTTCCACCCAGTCTCAGACTCAGACTCGGACATGGTCAGT
 GGAGAGGAGACGCCATCCTATGGATTCTACTCACAGAGGGCAACAGCAATGAAGATGT
 CTAGGAGATGAACTAGAAATAAGGGGTGAGATAATGCTGGCAAATCCTCCTACCCAAAAA
 GGGGTCAATTGTCCAGAGACCTAGACTGGATACGAACTAGCAGTACTTCCTTCTGACTG

FIGURE 1 (CONT'D)

TGACTCCTACTACCTGCCAGCCTTCTTCCTTGCTCTGCGCTGGGATCATACTCCCAAATC
ACATTACTAAATGCCAACAAATTATCTCTGAATTCCCTATCCAGGCTCCCCTCATTTTACC
TTCAGCATATATTCTAGTCATGAATTTCTTCTTACACACCCACATCTCTGGGCTTTG
TGCCAGACCATCTCTAACTTAATCCTCTCATCCCTGTTCCCTTTCTCAAAGAGATGAA
GCTCAAATAAAATGTATAACTCT

Gene 506. >ENST00000244759 cDNA sequence

ATGTACCGACCGCGAGCCCGGGCGGCTCCCCGAGGGCAGGGTCCGGGGCTGCGCGGTGCCC
AGCACCGTGCTCCTGCTGCTCGCCTACCTGGCTTACCTGGCGCTGGGCACCGGCGTGTTT
TGGACGCTGGAGGGCCGCGCGGCGCAGGACTCCAGCCGCGAGCTTCCAGCGCGACAAGTGG
GAGCTGTTGCAGAACTTACGTGTCTGGACCGCCCGGCGCTGGACTCGCTGATCCGGGAT
GTCGTCCAAGCATACAAAAACGGAGCCAGCCTCCTCAGCAACACCAGCATGGGGCGC
TGGGAGCTCGTGGGCTCCTTCTTCTTTTCTGTGTCCACCATCACCACCATTTGGCTATGGC
AACCTGAGCCCCAACACGATGGCTGCCCCCTCTTCTGCATCTTCTTTGCCCTTGTGGGG
ATCCCACTCAACCTCGTGGTGCTCAACCGACTGGGGCATCTCATGCAGCAGGGAGTAAAC
CACTGGGCCAGCAGGCTGGGGGGCACCTGGCAGGATCCTGACAAGGCGCGGTGGCTGGCG
GGCTCTGGCGCCCTCCTCTCGGGCCTCCTGCTCTTCTGCTGCTGCCACCGCTGCTCTTC
TCCCACATGGAGGGCTGGAGCTACACAGAGGGCTTCTACTTCGCCTTCATCACCCCTCAGC
ACCGTGGGCTTTCGGCGACTACGTGATTGGAATGAACCCCTCCAGAGGTACCCACTGTGG
TACAAGAACATGGTGTCCCTGTGGATCCTCTTTGGGATGGCATGGCTGGCCTTGATCATC
AAACTCATCCTCTCCAGCTGGAGACGCCAGGGAGGGTATGTTCTGCTGCCACCACAGC
TCTAAGGAAGACTTCAAGTCCCAAAGCTGGAGACAGGGACCTGACCGGGAGCCAGAGTCC
CACTCCCCACAGCAAGGATGCTATCCAGAGGGACCATGGGAATCATACAGCATCTGGAA
CCTTCTGCTCACGCTGCAGGCTGTGGCAAGGACAGCTAG

Gene 507. >ENST00000211196 cDNA sequence

ATGCCCAGTGCTGGGCTCTGCAGCTGCTGGGGTGGCCGGGTGCTGCCCCTGCTGCTGGCC
TATGTCTGCTACCTGCTGCTCGGTGCCACTATCTTCCAGCTGCTAGAGAGGCAGGCGGAG
GCTCAGTCCAGGGACAGTTTCACTTGGAGAAGCTGCGCTTCTGGAGAACTACACCTGC
CTGGACCACTGGGCCATGGAGCAGTTTGTGCAGGTATCATGGAAGCCTGGGTGAAAGGT
GTGAACCCCAAAGGCAACTCTACCAACCCAGCAACTGGGACTTTGGCAGCAGTTTCTTC
TTTGCAGGCACAGTCGTCACTACCATAGGATATGGGAACCTGGCACCCAGCACAGAGGCA
GGTCAGGTCTTCTGTGTCTTCTATGCCCTGTTGGGCATCCCGCTTAACGTGATCTTCCTC
AACCACCTGGGCACAGGGCTGCGTGCCCATCTGGCCGCCATTGAAAGATGGGAGGACCGT
CCCAGGCGCTCCCAGGTAAGTCAAGTCTGGGCCTGGCTCTGTTCTGACCCTGGGGACG
CTGGTCATTCTCATCTTCCCACCCATGGTCTTTCAGCCATGTGGAGGGCTGGAGCTTCAGC
GAGGGCTTCTACTTTGCTTTTCATCACTCTCAGCACCATTTGGCTTTGGGGACTATGTTGTT
GGCACAGACCCAGCAAGCATTATATCTCAGTGTATCGGAGCCTGGCAGCCATCTGGATC
CTCCTGGGCCTGGCGTGGCTGGCGCTGATCCTCCCACTGGGCCCCCTGCTTCTGCACAGA
TGCTGCCAGCTCTGGCTGCTCAGTCTGAGGCAAGGCTGTGGAGCCAAGGCGGCTCCAGGC
AGGAGACCCAGGAGAGGCTCTACAGCAGCAAGAGGAGTCCAAGTCAACCCCAAGGACTTC
CCCATATCCAAGAAAGGACTGGGAAGCTGA

Gene 508. >ENST00000248594 cDNA sequence

GGGGAGAGGCGGCTGCGGCTGCGGCTGCGGCTGCTGGCGGGGGGTGGGGGGGAGGAGGAA
CCGGGAAGGGGGGGCAGGGCGAGCGGAGAGCTAGCTGTGTTCTGAGGCGGCGCCGCCGC
CTAGGGCGGTGGGGAGGAGGAGGAGCCGCGGGGCTTGGCGGGGTGGGAGGGAGGGACG
TGCTGGGGGAACGAGCTGGGGAAGACGGAGCGGGCTCTGTGCCGGGCGGGCGGGCGGCGG
GGGGGCCAGCGACCGCAGCCGGGGGGACGCGGGAGGATGGAGCAAGTGGAGATCCTGAGG
AAATTCATCCAGAGGGTCCAGGCCATGAAGAGTCTGACCACAATGGGGAGGACAACTTC
GCCCGGGACTTCATGCGGTTAAGAAGATTGTCTACCAAATATAGAACAGAAAAGATATAT
CCCACAGCCACTGGAGAAAAAGAAGAAATGTTAAAAAGAACAGATACAAGGACATACTG
CCATTTGATCACAGCCGAGTTAAATTGACATTAAAGACTCCTTCAAGATTTCAGACTAT
ATCAATGCAAATTTTATAAAGGGCGTCTATGGGCCAAAAGCATATGTAGCAACTCAAGGA
CCTTTAGCAAATACAGTAATAGATTTTGGAGGATGATATGGGAGTATAATGTTGTGATC
ATTGTAATGGCCTGCCGAGAATTTGAGATGGGAAGGAAAAAATGTGAGCGCTATTGGCCT
TTGTATGGAGAAGACCCCATACGTTTGACCATTTAAATTTCTTGTGAGGATGAACAA

FIGURE 1 (CONT'D)

GCAAGAACAGACTACTTCATCAGGACACTCTTACTTGAATTTCAAATGAATCTCGTAGG
 CTGTATCAGTTTCATTATGTGAACTGGCCAGACCATGATGTTCTTCATCATTGATTCT
 ATTCTGGACATGATAAGCTTAATGAGGAAATATCAAGAACATGAAGATGTTCTATTGT
 ATTCATTGCAGTGCAGGCTGTGGAAGAACAGGTGCCATTTGTGCCATAGATTATACGTGG
 AATTTACTAAAAGCTGGGAAAATACCAGAGGAATTTAATGTATTTAATTTAATACAAGAA
 ATGAGAACACAAAGGCATTCTGCAGTACAAACAAAGGAGCAATATGAACTTGTTCATAGA
 GCTATTGCCCACTGTTTGAAAAACAGCTACAACATATGAAATTCATGGAGCTCAGAAA
 ATTGCTGATGGAGTGAATGAAATTAACACTGAAAACATGGTCAGCTCCATAGAGCCTGAA
 AAACAAGATTCTCCTCCTCCAAAACCAAGGACCCGAGTTGCCTTGTTGAAGGGGAT
 GCTAAAGAAGAAATACTGCAGCCACCGGAACCTCATCCAGTGCACCCATCTTGACACCT
 TCTCCCCCTTCAGCTTTTCCAACAGTCACTACTGTGTGGCAGGACAATGATAGATACCAT
 CCAAAGCCAGTGTTCATATGGTTTCATCAGAACCAATTGAGCAGACCTCAACAGAAAC
 TATAGTAAATCAACAGAACTTCAGGGAAAAATGAATCAACAATTGAAAGATAGATAAA
 AAATTGGAACGAAATTTAAGTTTTGAGATTAAGAAGGTCCCTCTCAAGAGGGACCAAAA
 AGTTTTGATGGGAACACACTTTTGAATAGGGGACATGCAATTAATAATTAAATCTGCTTCA
 CCTTGTATAGCTGATAAAATCTCTAAGCCACAGGAATTAAGTTGAGATCTAAATGTCGGT
 GATACTTCCCAGAATTCCTGTGTGGACTGCAGTGTAAACACAATCAAACAAAGTTTCAGTT
 ACTCCACCAGAAGAATCCCAGAATTCAGACACACCTCCAAGGCCAGACCGCTTGCCTCTT
 GATGAGAAAGGACATGTAACGTGGTCATTTTCATGGACCTGAAAATGCCATACCCATACCT
 GATTTATCTGAAGGCAATTCCTCAGATATCAACTATCAAAGTAGGAAAATGTGAGTTTA
 ACACCAAGTCTTACAACAAGTTGAAACACCTGATCTTGTGGATCATGATAACACTTCA
 CCACTCTTCAGAACACCCCTCAGTTTTACTAATCCACTTCACTCTGATGACTCAGACTCA
 GATGAAAGAACTCTGATGGTGTGTGACCCAGAATAAACTAATATTTCAACAGCAAGT
 GCCACAGTTTTCTGCTGCCACTAGTACTGAAAGCATTTCTACTAGGAAAGTATTGCCAATG
 TCCATTGCTAGACATAATATAGCAGGAACAACACATTGAGGTGCTGAAAAGATGTTGAT
 GTTAGTGAAGATTCACCTCCTCCCCTACCTGAAAGAACTCCTGAATCGTTTGTGTTAGCA
 AGTGAACATAATACACCTGTAAGATCGGAATGGAGTGAACCTCAAAGTCAGGAACGATCT
 GAACAAAAAAGTCTGAAGGCTTGATAACCTCTGAAAATGAGAAATGTGATCATCCAGCG
 GGAGGTATTCATATGAAATGTGCATAGAATGTCCACCTACTTTTCAGTGACAAGAGAGAA
 CAAATATCAGAAAATCCAACAGAAGCCACAGATATTGGTTTTGGTAATCGATGTGAAAA
 CCCAAAGGACCAAGAGATCCACCTTCAGAATGGACATGATTGAGGGAGCTAGAAGACACT
 TTAAGTTATACTGGAATAATCAGGTGCCACTGAAAGCCAGATTTATAGTATTCCATCTTT
 AATATGTGGGACTAACAGCAGTGTAGATTGTTACCTTAATATTTTTTGTGGGACCATCT
 ACCTGCCTTATACTACACTTAGGAAAAAGTATTACATATGGTTTTATTTTGAACTTCAAG
 TATTATTGCCTTAATGTCTCTTAACCTGTTACACGCTGCTTGTAGACATGTTAATATAG
 TAATACCTTTATGATATATTGAGTTTAAGGACTACTCTTTTTCTGTTTTATCATGTATGC
 ATTATTTTGTATATGTACAGGGCAAGTAGGTATATAATTTGATAAAGTTGCAATTGAAAT
 ATTATTAACAGAAGATGTAAGAAATTTCTGCATGGTCTAAATCTTTGTGTACTTTATTTG
 TAAATTATTTGCCCTGGAGTTTTAGAAAATAGTTTCTGAATTTTAACTTGCTGGATTCA
 TGCAGCCAGCTTTGCAGGTTATCAGAGATCAAAGATTGTAATAATAATTTGTAAATTGT
 AAGCAAAAAGTTATTTTATATTATATACAGTCTAATTGTTTCATCCTAATTGTTCTGTG
 TTCATCTAGTCAGAGATTGAGTAAGTGCCTTGGAACAATATTGAATTCTCTTAGCTTGTG
 TGTGTTTCTTTAATATTTGAACTCAAGTGGGATTAGAAGACTATCAAAATACATGTATGT
 TTCAGGATATTTGACCTGTCAATAAAAAAAACAAACAGTTTTACAGTGCC

Gene 509. >ENST00000320648 cDNA sequence

ATGGCGTCTATATCGATGAACACGACTGTGAGCCGTTGGACCCTCAAGAGACTCGAACC
 AACATGGTGCTGGAGCTCGTAAGGTCACTTTTGAATAGGATGGACTTTGAAGACTTGGGG
 TTGGTAGTAGATTGGGACCACCACTGCCTCCACCGCTGCCAAGATTGTGGTTGAGAAC
 CTCTCCAGGACAGTCATCGCTCTCAAGGCTGAGCTCAAGTGCCCCGTGTATCTTTTGAA
 TCTGAGGAGGAGACTGCCATTGAGATGTCCCAACACCTTTTCAATCCAGTTGCATTCTG
 CCTGGCTAAGCAAGACAAATTCTGTCCCTTGTGCCGCCATGAGCTGCCACTGATGAC
 TACACTTATGAGGAACACAGACGAGATAAGGCTCGAAAACAGCAGCAGCAGCAGAACCGA
 CTGGAGAACCTCCATGGAGCCATGTACACGTGA

Gene 510. >ENST00000327788 cDNA sequence

FIGURE 1 (CONT'D)

AGCAGCAGGGAGCTCCAAGCCGCGGAGTATTTGGAAAAGCATCAGATCAAGGAGGTGGTT
AGCTACCTCACCAGCGCCCTCCTTTTCTTTTCGGCCGGAAAAACAAAAGAATATTTAATA
TCTCTATTGGAACGACTGAGAATTGCAAAAGTAACAGGCGTGGCGTTTCCTTTCTTTATG
GATAACTCTAACATTGTGGCTATGTTTGAGATGATGGACTCCTCAGGCAGAGGCACCATA
TCATTTGTGCAGTATAAAGAAGCCCTAAAAACCTGGGTCTATGCACTGAAGATGAAGAT
TTACAAGATGATGGACATAAAATAACTTTGGATAAATTCAAGGAGGAAGTGAACAAGAGG
ATGAAGGAAATATGGTCAGCATTTTAA

Gene 511. >ENST00000257700 cDNA sequence

GAAACCAAGTGAGACATCGAGAGGAAGTCGCTGTGGCACTCAGTCCTACGGCCTCCGAGGC
TGGGTAGTGAGTGTGTGCTGGCCTTAGCCAGACTCCACAGGCCACGCTGGCTGCGAATG
GAGCCGAGGACTCGCGCGGAGGCGAGATGCTACCAGCCGGCGAGATCGGCGCCTCTCCTG
CAGCCCCGTGCTGCTCTGAAAGTGGTGACGAAAGGAAGAACCTCGAGGAGAAAAGTGACA
TAAATGTTACAGTTCTTATTGGAAGTAAACAAGTCAGTGAAGGTACAGATAATGGTGATC
TCCCTTCTTATGTGTCTGCATTATAGAAAAGGAAGTTGGAAATGACCTTAAATCTTTAA
AGAACTTGATAAACTCATAGAACAGAGGACAGTAAGTAAATGCAGTTAGAAGAACAGG
TACTTACAATTTTCATCAGAAATTCCTAAAAGAATTCGAAGTGCCTTAAAAAATGCAGAAG
AATCAAAGCAATTTCTTAATCAGTTTCTGGAGCAGGAACTCATCTCTTCAGCGCCATTA
ACAGCCATTTGCTGACTGCGCAACCTTGGATGGACGATCTTGGAAACCATGATTAGCCAGA
TTGAAGAGATCGAACGTATCTTGCTTACCTTAAATGGATTTCACAAATTGAAGAACTAA
GTGATAACATTTCAGCAATATCTGATGACCAATAATGTACCGGAGGCAGCCTCCACTCTAG
TGTCTATGGCAGAACTTGACATTAAACTTCAGGAATCATCTTGTACTCATCTTCTTGGTT
TCATGAGAGCCACAGTTAAATTCCTGGCATAAAATTCCTCAAGGACAAGCTTACAAGTGATT
TTGAGGAAATTTTAGCACAGCTTCATTGGCCATTATCGCACCCCTCAATCACAACTG
TTGGCTTAAGTCGACCTGCCAGTGCCCCGGAGATATACAGTTACCTGGAGACACTGTTTT
GTCAGCTTTTTGAAACTACAAACCTCAGATGAATTACTTACTGAGCCAAAGCAACTCCCAG
AAAAATACTCTCTTCTGCCTCCCCTTCTGTATCTGCCCATCCAGGTTATGCTGACTC
CTCTTCAGAAGAGGTTCAGGTATCACTTCAGAGGGAACCGGCAGACTAATGTGTTAAGCA
AGCCAGAATGGTACTTGGCTCAAGTACTTATGTGGATTGGAAACCATACTGAATTTCTGG
ATGAGAAGATTTCAGCCAATATTAGACAAAGTAGGCTCTTTGGTAAACGCAAGGCTTGAAT
TTTCTCGGGGCCTTATGATGCTGGTTCTTGAGAAGTTAGCCACTGATATTCCTTGTCTGC
TATATGATGACAATCTCTTCTGTCAATTTGGTGGATGAAGTACTCTTGTGTTGAAAGGGAGC
TACACAGTGTTTCATGGCTATCCTGGCACTTTTGTCTAGTTGTATGCATATTCTATCAGAGG
AAACCTGTTTTTCAGAGATGGTTGACGGTGGAGAGAAAATTTGCTCTTCAAAAAATGGACT
CAATGCTTTTCTCAGAACTGCCTGGGTATCGCAATATAAGGATATCACTGACGTGGATG
AATGAAAGTTTCAGATTGTGCAGAACTTTTATGACTCTACTCTTGGTTATAACTGACA
GGTATAAAAAATCTTCCACAGCTTCCCGAAAGCTTCAGTTCCTGGAGTTACAGAAGGACT
TAGTAGATGATTTTAGGATACGATTAACACAAGTGATGAAAGAAGAGACTAGAGCTTTCC
TTGGCTTTTCGATACTGTGCAATTTCTTAATGCTGTGAACTACATCTCAACAGTACTAGCAG
ATTGGGCTGACAATGTTTTCTTTCTACAACCTTCAACAGGCTGCACTGGAGGTGTTTGCAG
AGAATAATACTCTGAGTAAATTGCAGCTAGGACAGCTAGCCTCTATGGAGAGCTCTGTCT
TTGATGACATGATTAACTCTTAGAACGTTTAAAGCATGATATGTTGACCCGTCAAGTAG
ACCACGTTTTTTAGAGAAGTTAAAGATGCTGCAAAATTTGATAAAAAAGAAAGATGGTTGT
CCTTGCCATCTCAGTCAGAGCAGGCAGTGATGTCCCTGTCCAGTTTCGGCTTGCCCGTTGC
TGCTGACGTTACGAGACCATTTACTTCAGTTGGAGCAGCAGCTTTGTTTTCTCCTTATTTA
AAATTTTCTGGCAAATGCTTGTAGAGAAGCTGGATGTATACATCTACCAAGAAATAATTC
TTGCTAATCACTTCAATGAAGGAGGAGCAGCCAGCTGCAGTTTGATATGACTCGGAATC
TTTTCCCTTTGTTTTCTCACTATTGCAAGAGACCAGAAAATTATTTTAAACATATAAAAG
AAGCCTGTATTGTTTTGAATTTGAACGTCGGTTCTGCACTACTGCTGAAAGATGTA CTGC
AGTCAGCTTCAGGGCAGCTTCCTGCCACAGCAGCATTAAATGAAGTTGGAATTTACAAAC
TGGCTCAACAAGATGTTGAGATTCTACTTAATTTGAGGACAAATTGGCCTAATACTGGAA
AATAATGTCTTTAGAAAAAGGTTTCTTTGGTTTTTGTCTTAAGAAAGAGGAAGCCAAT
TGGATTTCAAGTTATATGATGAAATTCGAATTAATGAAACTGGAAAACTTTATAGAATT
ACTTATTATCTTGGATTTATGGTGTTATTAATAATGCTGACCATATTTCTTCATCCTCTT
GTTCTTAAGGAAACAAAAACAGAAAACGAAACAATGAAACTCAATTCTATTTACAAGTA

FIGURE 1 (CONT'D)

TAAATGCTGAGTATGTCTGTTGAAGACGAGCAGAGATATTAAATTATAACCAACTTTCAA
TTTCCTGTGCTAATTAAGGGAAATTCTGTTGTGGATAATCAAACATAGCCAATAAATTTT
TTTAAACTC

Gene 512. >ENST00000332220 cDNA sequence

GACACCAAGCCCGGCACTACGGGCAGCTGCGCAGGGAGCGGTGGTCCGGGCGGCCTCACA
TCGGCGGCGCCTGCCAGCGTGGACAAGAAGGTCATCGCAGTGAAGGTTTTGGGAACAGTA
AAATGGTTCAATGTAAGGAACGGATATGGTTTTCATCAACAGGAATGACACCAAGGAAGAT
GTATTTGTACACCAGACTGCCATAAAGAATAACCCAGGAAGTACCTTCGCAGTGTAGGA
GATGAAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAGAGGGTGCGGAGGCAGCAAAT
GTTACAGATCCTGGTGGTGTTCGAGTTCAAGGCGGTAAATATGCAGCAGATCGTAACCAT
TATAGACGCTATCCACGTCTATAGGGGTCCTCCACGCAATTACCAGCAAAATTACCAGAAC
AGTGAGAGTGGGGAAAAGACCGAGGGATCGGAGAATGCTCCCGAAGGCCAGGCCCAACAA
TGCCGGCCCTACCGCAGGCAAAGGTTCCACCTTACTACATGCGGAGACCCTATGGGTGT
CGACCACAGTATTCCAGCCCTCCTGTGCAGGGAGAAGTGATGGAGGGTGCTGACAACCAG
GGTGCAGGAGAACAAGGTAGACCAGTGAGGCAGAATATGTATCGGGGATATAGACCA CGA
TTCCGCAGGGGCCCTCCTTGCCAAAGACAGCCTAGAGAGTACGGCAATGAAGAAGATAAT
CAAGGAGATGAGACCCAGGGTCAGCAGCCACCTCAACGTCGGTACCGCAGCAACTTCAAT
TACCAACGCAGATGCCAGAAAACCTAAATCACAAGATGGCAAAGAGACAAAATCAGCC
AATCCACCAGCTGAGAATTCGTCTGCTCCCGAGGCTGAGCAGGGCGGGGCTGAGTAA

Gene 513. >ENST00000310149 cDNA sequence

CCGGGCGGCCTCACATCGGCGGCGCCTGCCAGCGTGGACAAGAAGGTCATCGCAGTGAAG
GTTTTGGGAACAGTAAATGGTTCAATGTAAGGAACGGATATGGTTTTCATCAACAGGAAT
GACACCAAGGAAGATGTATTTGTACACCAGACTGCCATAAAGAATAACCCAGGAAGTAC
CTTCGCAGTGTAGGAGATGAAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAGAGGGT
GCGGAGGCAGCAAATGTTACAGATCCTGGTGGTGTTCGAGTTCAAGGCGGTAAATATGCA
GCAGATCGTAACCATTATAGACGCTATCCACGTCATAGGGGTCCTCCACGCAATTACCAG
CAAAATTACCAGAACAGTGAGAGTGGGGAAAAGACCGAGGGATCGGAGAATGCTCCCGAA
GGCCAGGCCCAACAATGCCGGCCCTACCGCAGGCAAAGGTTCCCACTTACTACATGCGG
AGACCCTATGGGTGTGCGACCACAGTATTCCAGCCCTCCTGTGCAGGGAGAAGTGATGGAG
GGTGCTGACAACCAGGGTGCGAGGAGAACAAGGTAGACCAGTGAGGCAGTGTATCGGGGAT
ATAGACCA CGATTCCCGAGGGGCCCTCCTTGCCAGACAGCCTAGAGAGTACGGCAATGAA
GAAGATAATCAAGGAGATGAGACCCAGGGTCAGCAGCCACCTCAACGTCGGTACCGCAGC
AATTCAATTACCAACGCAGATGCCAGAAAACCTAAATCACAAGATGGCAAAGAGACA
AATCAGCCAATCCACCAGCTGAGAATTCGTCTGCTCCCGAGGCTGAGCAGGGCGGGGCT
GAGTAA

Gene 514. >ENST00000329090 cDNA sequence

CAGCGTGGACAAGAAGGTCATCGCAGTGAAGGTTTTGGGAACAGTAAATGAATGTAAGG
AACGGATATGGTTTTCATCAACAGGAATGACACCAAGGAAGATGTATTTGTACACCAGACT
GCCATAAAGAATAACCCAGGAAGTACCTTCGCAGTGTAGGAGATGAAGAGACTGTGGAG
TTTGATGTTGTTGAAGGAGAAGAGGGTGCGGAGGCAGCAAATGTTACAGATCCTGGTGGT
GTTTCGAGTTCAAGGCGGTAAATATGCAGCAGATCGTAACCATTATAGACGCTATCCACGT
CATAGGGGTCCTCCACGCAATTACCAGCAAAATTACCAGAACAGTGAGAGTGGGGAAAAG
ACCGAGGGATCGGAGAATGCTCCCGAAGGCCAGGCCCAACAATGCCGGCCCTACCGCAGG
CAAAGGTTCCACCTTACTACATGCGGAGACCCTATGGGTGTGCGACCACAGTATTCCAGC
CCTCCTGTGCAGGGAGAAGTGATGGAGGGTGCTGACAACCAGGGTGCGAGAGAACAAAGGT
AGACCAGTGAGGCAGAATATGTATCGGGGATATAGACCAGATTCCGCAGGGGCCCTCCT
TGCCAAAGACAGCCTAGAGAGTACGGCAATGAAGAAGATAATCAAGGAGATGAGACCCAG
GGTCAGCAGCCACCTCAACGTCGGTACCGCAGCAACTTCAATTACCAACGCAGATGCCCA
GAAAACCTAAATCACAAGATGGCAAAGAGACAAAATCAGCCAATCCACCAGCTGAGAAT
TCGTCTGCTCCCGAGGCTGAGCAGGGGCTGAGTAAATGCCGGCTTACCATCTCTACCATC
ATCCGGTTTAGTCATCCAACAAGAAGAAATATGAAATTCCAGCAATAA

Gene 515. >ENST00000274867 cDNA sequence

AGGAAAGGGGTCCCGGACTCTGGGGCTCTCAGCACCTGCGGTGCGAAACCAACCTCATG
CCCTGACTTTACCAGGCGTCGGGACTCTGACTTAACCGGGGAATGAGGGACTTGGTCTGG

FIGURE 1 (CONT'D)

CGGCAGATCACAATGAGGACCTAGGGCATCTGTCTGCTGACGCCCCCTGGCCTGCAGTGA
 CCATGGCCCCCGCAAGAGGAGCCACCATGGCCTGGGCTTCCTGTGCTGCTTCGGGGGCA
 GTGACATCCCCGAAATCAACCTCCGGGACAACCAACCTCTGCAGTTCATGGAGTTCTCCA
 GCCCCATCCCGAACGCAGAGGAGCTCAACATCCGCTTTGCAGAGCTGGTGGATGAATTGG
 ATCTCACTGACAAAAACCGAGAGGCTATGTTTGCAGTCCCCCTGAGAAGAAATGGCAGA
 TCTACTGCAGCAAGAAGAAGGAGCAGGAGGACCCCAACAAGCTGGCAACCAGCTGGCCTG
 ACTATTACATCGACCGCATCAATTCATGGCTGCGATGCAGAGTCTGTACGCGTTTGATG
 AGGAGGAGACGGAGATGAGGAACCAAGTCGTGGAAGACCTGAAGACAGCCCTCCGGACAC
 AGCCTATGAGGTTTGTGACCCGCTTCATTGAGCTGGAGGGCTTGACCTGTCTGCTAAATT
 TCCTCCGGAGCATGGACCACGCCACCTGTGAGAGCCGCATCCACACCTCACTCATTGGCT
 GCATCAAAGCATTGATGAACAACTCCAGGGGCGGGCACATGTGCTGGCACAGCCTGAGG
 CCATTAGTACCATAGCCCAGAGCCTACGCACAGAGAACAGCAAGACCAAGGTGGCTGTGC
 TGGAGATCCTGGGTGCTGTGTGCTCGTGCTGGTGGCCACAAGAAGGTGCTGCAGGCCA
 TGCTGCACTACCAGGTGTATGCAGCAGAGCGAACCCGCTTCAGACCCCTGCTGAACGAGC
 TAGACCGAAGTCTGGGCGCGTACCGGGATGAAGTGAATCTGAAAAAGCCATCATGTCTCT
 TCATCAATGCTGTCTCTCAATGCTGGAGCTGGAGAGGATAATCTGGAGTTCCGCTACATC
 TACGGTATGAATTCCTGATGCTGGGTATACAGCCTGTGATTGACAAGCTCCGGCAACATG
 AAAATGCCATCCTGGACAAACATTTAGACTTCTTCGAGATGGTGCAGGAATGAGGATGACC
 TGGAGCTAGCCAGGAGGTTTGCATGGTCCACATCGACACCAAGAGTGCTTCCAGATGT
 TTGAGTTGATCCACAAGAAGCTGAAGTACACGGAGGCCTACCCCTGCTGCTCTGTGTC
 TGCACCACTGCCTGCAGATGCCCTACAAACGGAACGGTGGCTACTTCCAGCAGTGGCAGC
 TCCTGGACCGCATCCTCCAGCAGATTGTCTCCAGGATGAGCGGGGTGTGGACCCCTGACC
 TGGCTCCCTTGGAGAACTTCAATGTCAAGAACATCGTCAACATGCTCATCAACGAGAATG
 AAGTGAAACAGTGGCGAGACCAGGCAGAGAAGTTCGGGAAAGAACACATGGAGCTTGTGA
 GCCGTCTGGAGAGGAAGGAGCGGGAATGCGAGACAAAGACATTGGAGAAGGAAGAGATGA
 TGCGGACGCTGAACAAAATGAAGGACAAGCTGGCCCCGGGAGTCCAGGAGCTGCGCCAGG
 CTCGGGGACAAGTGGCAGAGCTGGTAGCCAGCTCAGTGAACCTCTCAACAGGCCCTGTAT
 CTTCCCCACCAACCCCTGGGGGCCCCACTCACCTTGTCTTCTCAATGACAACCAATGACC
 TGCCTCCACCCCTCCTCCTCTGCCCCCTTTCCTGTTGTCCCCCTCCCCCAACCAACCC
 TTCCTCCCGGGGGACCCCCGACTCCCCCAGGTGCCCCACCTTGCTCGGCATGGGCCTGC
 CCCTCCCTCAGGACCCCTACCCAGCAGTGACGTCCCACTCAGGAAAAAGCGTGTCCCCC
 AGCCTTCTCACCCACTGAAGTCCTTCAACTGGGTGAAGCTGAATGAGGAGCGTGTCCCTG
 GCACCGTATGGAATGAGATTGATGACATGCAGGTATTTTCGGATCCTGGACCTAGAGGATT
 TTGAAAAGATGTTTTTCAGCCTACCAGAGGCACCAGAAAGAGCTGGGCTCCACTGAAGACA
 TCTACCTGGCTTCCCGCAAGGTCAAAGAGCTGTCCGTTCATTGATGGCCGGAGGGCCAAA
 ACTGCATCATCCTTCTTTTCAAGTTGAAGCTTTCTAACGAGGAGATCCGGCAGGCCATCT
 TGAAGATGGATGAGCAGGAGGACCTTGCTAAGGACATGCTGGAGCAGCTCCTCAAGTTCA
 TCCCAGAGAAGAGTGACATTGACCTCCTGGAGGAGCACAAGCATGAAATTGAGCGGATGG
 CCCGTGCTGACCGCTTCTCTATGAAATGAGCAGGATTGACCACTACCAGCAGCGACTGC
 AAGCCCTCTTCTTCAAGAAGAAATTCCAGGAGCGGTGGCTGAGGCAAAGCCCAAAGTGG
 AAGCCATCCTGTTGGCCTCCCGGGAGCTGGTCCGAGCAAGCGTCTTAGACAGATGCTAG
 AGGTCATCCTAGCCATAGGCAACTTCATGAACAAAGGGCAGCGTGGGGGCGCCTACGGGT
 TCCGGGTGGCCAGCCTCAACAAGATCGCTGACACCAAGTCCAGCATCGACAGAAACATCT
 CTCTGCTCCATTACCTGATCATGATCCTGGAGAAGCATTTTCTGATATTCTAAACATGC
 CTTTCAGAGCTGCAACATCTTCCAGAAGCTGCCAAAGTCAACCTAGCAGAACTGGAGAAGG
 AGGTGGGCAACCTCAGGAGGGGCTGAGAGCGGTGGAGGTGGAGCTGGAGTATCAGAGGC
 GCCAGGTACGGGAGCCAGTGACAAGTTTGTCCCTGTGATGAGCGACTTCATCACGGTGT
 CCAGCTTCAGCTTCTCCGAGCTGGAGGACCAGCTAAATGAGGCCAGGGACAAGTTTCGCCA
 AGGCCTTGATGCACTTCGGGGAGCATGACAGCAAGATGCAGCCAGACGAATTCTTTGGCA
 TCTTTGATACCTTCTTGCAGGCCTTCTCAGAGGCCCGGCAGGATCTAGAGGCCATGAGGA
 GGAGGAAGGAGGAGGAGGAGCGGCGGGCGCGCATGGAAGCCATGCTGAAGGAGCAGAGGG
 AACGTGAGCGGTGGCAGCGGCAGCGGAAGGTCTGGCTGCAGGCAGCTCGCTGGAGGAGG
 GAGGAGAGTTGATGACCTGGTGTGCGCCCTGCGCTCTGGGGAGGTCTTCGACAAGGACT
 TATGCAAGCTCAAGCGCAGCCGCAAGCGATCAGGGAGCCAGGCCCTGGAAGTTACCCGGG

FIGURE 1 (CONT'D)

AGCGGGCAATAAACCGGCTAAATTATTGACCTGGGGAACTAGCCACACAGGAGGCCGGGA
GACAGGGGACTGGTGAGAATGGGGCTGAGTGGAGGAGGTGGTGATATTTAAACCATTGGT
GCTTGGTTTAGAGCCTTGGGCTGGGTCTGGGATGGGGGGCTGTGTGTGGCTGGACCAGG
TGTCTCCCCACGCTTACCTTAAGGGGCTCCTCTTATCTCCCTTCACATGATTCTTCTG
TGCCCTGGCCCCAGGTATTATTCTGAGGCTGCCTTGGATGGCCTCAGGCCAGGTAAACCC
AGGCTGAAGGGGCCCTGCTCCCCATCCCCTACCATGGGCACCCATGTGCTGGCACAGAAC
AGTTCAGATCTAGACTGGAGAGGTCCACAGCCTTGTCCAGAGTTCTGTGTAGCACGGG
GAGCAATGATGGAGGGAGCCCCTGAGAGGGAATCTGGTGGAGGAATCCAGACTCCCTTCT
CTCAAGGGGAGGCTCAACAGAACATTGACCTGGGGGCAAACCTTCTCTTGAATGGGAAC
AGAGGAGGCATTATATATTCTAGTTAGATCAGCTCTGGTAGGTTCCAGAGAACAGTCAAT
GTTTGAAGGATGATGCAGGGACCAAGCCATCAGGACAGAGTAGCAGTGTCTGTTTCCCA
TGTCACAAGTCTCTGGCCTCTCCCTGCATGTCTTAAGTATCTTTCCCTTCTTCTCTAC
CCTCACCTCCATCCTGTCTACTAATCCACAGTCCTAGAAGACTCACCTTGGGTTTCCACA
GCTATGGCTCACTACCAGGTGCTTGATGAATCTGGCGAGGGGCTCAAGACAGACCTCATG
CATCACACACCTCATGCCTTTTGGGCATCTCCCATGTCCCCATCTCCTGGACACCTGGC
CATTGTTGTGAAGCCAGACAGTGACCTCAAATGTTGCCTTGGAGTCCCCTACAGCCCCTC
AGCAGAGGGCAGCACTTGAATGCTTAGCTCCATCCCATAGTTCTCTACTTCATATAAATT
GCTCAGGCCCTCCACCCCTTCTCTAACACTAGCTTCAAGGCAGAAGCCACAGCAGCCTC
TGTCCAGCCTGCAGGTGGCCACTTGAACCATGTGTCCACTGGCGTTGGGGAGTTGGTTC
CTGAGAGGTCTGAGGGCCAGAGCTGCCCTCTACATTAAACATGCTGTCTCTAAGGGTGGCC
CCTCCTCTCAGGCGTTCAGATGGTGCGAACAGCAGAGCAGGCAAGGGAAACTGGGGAGAT
GGGGATGGAGGAGGAAGGCTGATATCCTCTGGGGAGCACATCACCTGAAGGTGCCAAGGA
GGAAGGCTGAGAGGGGGGCCACCCATTTCTGGTACCCAATTTGGTTCTTCAGCCCAACT
TGCAAGGGGTTCTTCTGGTCTCCCATCCACTGCCACCTTCCATTTTGTCCATCTCATG
CTGGCCTTGGTGGATGGGATGGCTGTATCTAGACAAAATTTTTCTAAAACTCCATCAAGG
CTCTTATTCAATACCACGTTCCGAGTTGGCCTTTCTCTTTGAGACTGGCCCTGCCT
AACCTCTACCATCAATGAGCTCTTGGCCCTTCTGCCCTTCCCTGTGTTTCTCACTTTCCA
ACCTAATCCCTGGCTCAGGGTTATTGCCAGTGGAGACTGGTGAGCTGGGCCTACTCTCAG
CTGCCTATCTTCTGCCTTTCACTTGATCCAACTCCTGGGGCTGGGACCGTAGTAGCTGC
GGGGGGGAAGAAACACAGGGTGGGTGAGCCAGCATGTGCGTTGGTTTGAGGGGGCGGGC
GGTGTGTGTGTGTTCTGGTGGGAGGGATCTGAGCAAGTGCAAGCCTGGCTGACACAGGTG
TGAAGAGGCCATCCTGGAACCCAGGTGAGGGCAAGATGAAGGCTTCCAGGCAGAACAGCT
GCAGAGAGTTTGGCTATATGCATCTGCAGCCCCAAGAGCTCCCACTGCAAGACAAGTGT
GGGGAAGATGGGAGGTGTGGGTGAGGCCTCTAAAGGTCTCTCCCAAAGTGAACAGGCT
GATGTCAACCTAACCCCTCAGGGGCAGGGAACAGGGGAGGGCTCCACAAGCGTGTCTGG
CATTCCACCCACCATGGAAGACTGGATACGCACCTGGAAACAAAAGGACTATGGAAGCT
GTTCAAGATACATTTGATCTTCAAGAAAGCAGAATTTGGTTCAACTGTTGACAGAGGACA
CAAATACGTTGTTCCAGAGCTCAGCCTTCTCACTCTAAAAGAAAGATATTTTTCTATTTA
TTTTCTACATCTGGCCAGTGGCTCTGGTGCTAGATGCCACTGTAGCCAGATCTCCAACAG
TGCCCTTGGACCATGGACTCATACTCAACTGAGTAAGAAGGGGCTGGTGCCAGTCCGGGT
GGCTGAGCTGGTCTTAATAGGTGTTTTCTTGGTCTTGCTTTCTTCATGCCCTCCCCACT
GCTCCTGCCACCTTTAGATAAGTTTCTCTAGCTAATTTTGTGGCCAATGTAAAATTCTGTC
ATCAACCTAACAAACACAACCTTCTCAGCAGCATTTCTCCCTGTGATGGAAATAAAGTG
TTTAGGGCAGTGGGAGGAGAAAATTCTCCAGGTGAATGGGGAAGGGTCTGTTCCAGCCTC
TCCCTACTCCCATCCCATTTCCACCAACTGGGGAAGTGTGACTATCTATCTCCCCGACT
TCTACCAGGGATGCCTTACGCCAAGGCTGTTCTCACCAGCTGCCTCAGATGACAAATGA
GGCTAATGGACATAATCTACAGTGTCTTTTTCACTTGACCTTTTTTATAAGAATATAT
TGTAATACTAAAAAATATTAAATTCATACCATCCCTACCCAGTC

Gene 516. >ENST00000257687 cDNA sequence

GTGCGAGCCCGGCCCGCGGTGAGTCGGCTGGAGCGCATCTGGTCTCCGCGCGGAAAGCG
CTGCTTTTGCCTGGCCGCCCTAGCCGCTGGCTCATCCAAGTGGCCTTCGCCGCTCTCTTG
CGTCCCAACCAGAGCGCTGGCCACCTCGCCGCCAGCTCACGCCGCGCCCGCTCCAG
GCTCCGGGTTTTCTTAAATGTTTTCTTGGAGCCTTAAAGATGGAGATGACAGAAATGACT
GGTGTGTGCTGAAACGTGGGGCACTGGTTGTGCGAAGATAATGACAGTGGAGTCCAGTT

FIGURE 1 (CONT'D)

GAAGAGACAAAAAACAGAAGCTGT CGGAATGCAGTCTAACCAAAGGTCAAGATGGGCTA
CAGAATGACTTTTCTGTCCATCAGTGAAGACGTGCCTCGGCCTCCTGACACTGT CAGTACT
GGGAAAGGTGGAAAGAATTCTGAGGCTCAGTTGGAAGATGAGGAAGAAGAGGAGGAAGAT
GGACTTTCAGAGGAGTGCAGAGGAGGAGGAATCAGAGAGTTTTGCAGACATGATGAAGCAT
GGACTCACTGAGGCTGACGTAGGCATCACCAAGTTTGTGAGTTCTCATCAAGGGTTCTCG
GGAATCTTAAAGAAAGATACTCCGACTTCGTTGTTTCATGAAATAGGAAAAGATGGACGG
ATCAGCCATTTGAATGACTTGTCCATTCCAGTGGATGAGGAGGACCCTTCAGAAGACATA
TTTACAGTTTTTGACAGCTGAAGAAAAGCAGCGATTGGAAGAGCTCCAGCTGTTCAAAAAT
AAGGAAACCAAGTGTGTCATTGAGGTTATCGAGGACACCAAAGAGAAAAGAACCATCATC
CATCAGGCTATCAAATCTCTGTTTTCCAGGATTAGAGACAAAAACAGAGGATAGGGAGGGG
AAGAAATACATTGTAGCCTACACGCAGCTGGGAAAAAGGCTTTGGCAAATCCAAGAAAA
CATTCTTGGCCAAAATCTAGGGGAAGTTACTGCCACTTCGTACTATATAAGGAAAACAAA
GACACCATGGATGCTATTAATGTACTCTCCAAATACTTAAGAGTCAAGCCAAATATATTCT
TCCTACATGGGAACCAAAGATAAAAGGGCTATAACAGTTCAAGAAATTGCTGTTCTCAAA
ATAACTGCACAAAGACTTGCACCTGAATAAGTGCTTGATGAACTTTAAGCTAGGGAAT
TTCAGCTATCAAAAAAACCCACTGAAATTGGGAGAGCTTCAAGGAAACCACTTCACTGTT
GTTCTCAGAAATATAACAGGAACTGATGACCAAGTACAGCAAGCTATGAACTCTCTCAAG
GAGATTGGATTTATTAATACTATGGAATGCAAAGATTTGGAAACACAGCTGTCCCTACG
TATCAGGTTGGAAGAGCTATACTACAAAATTCCTGGACAGAAGTCATGGATTTAATATTG
AAACCCCGCTCTGGAGCTGAAAAGGGCTACTTGTTAAATGCAGAGAAGAATGGGCAAAG
ACCAAAGACCCAACCTGCTGCCCTCAGAAAACCTGTCTCAAAAGGTGTGTGGAAGGGCAG
CTGCTTCGAGGACTTTCAAAAATATGGAATGAAGAATATAGTCTCTGCATTTGGCATAATA
CCCAGAAATAATCGCTTAATGTATATTTCATAGCTACCAAAGCTATGTGTGGAATAACATG
GTAAGCAAGAGGATAGAAGACTATGGACTAAAACCTGTTCCAGGGGACCTCGTTCTCAAA
GGAGCCACAGCCACCTATATTGAGGAAGATGATGTTAATAATTACTCTATCCATGATGTG
GTAATGCCCTTGCCCTGGTTTTCGATGTTATCTACCCAAAGCATAAAATTCAAGAAGCCTAC
AGGGAAATGCTCACAGCTGACAATCTTGATATTGACAACATGAGACACAAAATTCGAGAT
TATTCCTTGTGAGGGGCTACCGAAAGATCATTATTCGTCCTCAGAATGTTAGCTGGGAA
GTCGTTGCATATGATGATCCCAAATTCCACTTTTCAACACAGATGTGGACAACTAGAA
GGGAAGACACCACAGTTTTTTGCTTCTGAAGGCAAATACAGGGCTCTGAAAATGGATTTT
TCTCTACCCCTTCTACTTACGCCACCATGGCCATTTCGAGAAGTGCTAAAAATGGATACC
AGTATCAAGAACCAGACGCAGCTGAATACAACCTGGCTTCGCTGAGCAGTACCTTGTCCA
CAGATTAGAAAACGTACAGGCGCGCACCAACCGCTAGCTGATTTTTTGTATTTTTTTGT
AGAGACGGGGGTTTTGGCCATGTTGCCGAGGCTAACTCCTGGGATTACAGGCATGAGCTGT
GCTGGCCGGGTTTTTTTTTTCTTGATGTAAACGTGTACAGCTGTTTTATTAGTTAAGGTCT
AATTTTTTACTCTAGGTGCCTTTTATGTTTCAAGACTCTTTCCACTGGACTGGTATTTGCTC
AAAAATAAATAATGGTAGAGAAGAAAACTATAAAAAATGGACAAGGCTTTCTTCTATCAGT
AGCGTTTACCCTTTGTCAACAGTGGCTTTGGTATTTCCATGTCTGGCATTGCATAAACTT
CTCTGGTGTGAAAGGATAAATATGCCTTTCTAAAGTTGTATATCAAAATTGTATCAATTT
TTATTTTCTATGATTTCTAGAAAACAAATGTAATAAATATTTTTTAAATCTC

Gene 517. >ENST00000314157 cDNA sequence

GTGCGCCTCCCGTCGCCCAAGATGCCGAAAGGAAAGGAGGCCAAGGGGAAGAAGTTGGCT
CTGGCCCCCTGCTTTTGTGAAGAAGCAGGAGGCCAAGAAAGTGGTGAATCCCCTGTTTGAG
AAAAGGCCTAAGAATTTTGGCATTGGACAGGACATCCAGCCCAAAGAGACCTCACCTGC
TTTGTGAAATGGCCCCGCTATATCAGGTTGCAATGGCAGAGATCCATACTCTATAAGCAG
CTGAAAGTGCCTCCTGCGATTAAACAGTTTCAACAGGCCCTGGAAGGCCAAACAGCTACT
CAGCTGCTTAAGCTGGCCCAAAATACAGACCAGAGACAAAGCAAGAGAAGAAGCGGAGG
CTGTTGGCCCAGGCAGAGTTGTGGGCAAAGGGGACCTCCCCAAAGAGACCACCTGTCTTT
CGAGCAGGAGTTAACACCATCACCACTTTGTGGATAACAAGAAAGCTCTGCTGGTGGTG
ACTGCACACGACATGGATCCCATGAGCTGACTGTTTTCTGCTGTCTGTGTATATAA
ATGGGAGCCACTTGCTGCATTATCAAGGGGAAGGCAAGACTGGGATGTCTAGTTTACAGG
AAGACCTACCACTGTGCACTTCAACAGGTTAACTCAGAAGACAAAGGAGCTTTGGCT
AAGCTGATGGAAGCTATCGGGACCAATTACAATGCCAGATACGATGAGACCCACTGTAC
TGGGACGGCAATGTCTGGGTCCCAAGTCTGTGGCTCACATTGCCAAGCTCGAAAAGGCA

FIGURE 1 (CONT'D)

AAGGCTAAAGAACTTGCCACTAACTGGGTTAA

Gene 518. >ENST00000312917 cDNA sequence

ATGGTGAGATGATGAGGCAGTTTCTGTACCGGGTCTGCCCCGAGGACTCCTACAAGGTC
 ACCACGGGGAAGCTCCATGTGAGCCTCACCCGCTTAACGGACGGGGAGAATGTGGTGGTT
 TCAGAGTTCACGTCCAAGGAGGAGCTCATTGAGGCAGCCCTATACTGCAGCTGCTTCGTC
 CCGGTGTACTGTGGCCTCATCCCCCGACTTACCGCGGTGTGAGGTACATCGATGGGGGC
 TTCACGGGCATGCAGCCCTGTGCCTTCTGGACCGACGCCATCACCATCTCCACCTTCAGT
 GGGCAGCAGGACATCTGTCCCCGGGACTGCCCGGCCATCTTCCACGACTTCCGCATGTTT
 AACTGCTCCTTCCAGTTTCTCCCTGGAGAACATCGCCAGGATGACCCACGCATTGTTCCCC
 CCGGACCTGGTGATCCTGCACGATTACTACTACCGAGGGTACGAGGATGCAGTTTTGTAC
 TTGAGGCGGCTGAATGCTGTTTTATCTTAATTCTTCTCCAAGAGAGTGATTTTCCCCGG
 GTGGAAGTGTAAGTGCAGATAGAACTCGCCCTTGGCAATGAGTGCCCTGAACGCAGTCAA
 CCAAGCCTTCGAGCACGGCAGGCCAGTCTGGAAGGAGCCACACAACCTCAAGGAGTGG
 GTTCCCAAAGGGGATGGAAGGGGCAGCCATGGTCCGCTGTGTCCCAACCTGTGCAGACA
 CTTGAATTCACATGCGAGTCACCTGTTTTAGCACCAGTCTCTCCACTTGAGCAGCCACCT
 GCACAGCCACTGGCCTCTTCAACTCCACTTTCTCTAAGTGGCATGCCACCTGTATCATTC
 CCAGCTGTGCACAAGCCACCCAGCTCCACACCTGGTTTCATCACTGCCACCCACCCACCT
 GGACTGTACCTCTGTACCTCAGCAGCAGGTACAACCGTCTGGATCACCCAGCCAGATCC
 CTACACTCTCAGGCACCCACTTCAACCCAGGCCATCCCTGGGGCCTTCAACTGTGGGGGCA
 CCTCAAACACTGCCCCGAAGTTCTCTTTTCAAGCCTTCCCTGCTCAGCCACCTGTGGAGGAA
 CTAGGCCAAGAAGCAGCCCCAAGCTGTAGCTCTTCTTGTCTCTTCAAAACCAAAAAGCGCC
 GTGCCTCTGGTTTCATGTGAAGGAAACCGTCAGCAAGCCTTATGTAACGGAGAGCCCTGCT
 GAAGACTCAAACCTGGGTGAATAAGGTCTTCAAGAAGAACAAGCAAAAGACAAGTGGCACC
 AGAAAAGGCTTCCCAAGACATTCGGGATCCAAAAACCAAGCAGCAAGTGCAGTGAGCA
 TGTCTAATGTTCTTAAATCCACGGAGAGGAGCAGCTTTGGGAACTGTGTTAGAGAGA
 TTCCGAGGAATAGAGGAGAGTGTAAGGGAGTAGGGGGTGCAGTGGGAGATTGGGCTTTGG
 AACAGACACATCCGACATAAAATTCCTGCTCTGCCACAGCTCCACTCAGGGATCATGGTT
 GGGACACTTGCTCTCCCTGAGCCTCCATTTCTGTAAAATGGGGATGATACCACTTCATA
 AAGTTGTGAGAGTTAAATGTGATCGATGATGTAAATTGCTTCATAGAATGCAGAATGTGT
 AATAGCTCACAATAAGTAGGTATTATGTTTACATATTATGTTTGTATTTATGCTACTTAA
 ATACAAAACCTGGACAGGCCAGGCATGGTGGCTCATGCCTGTAATCCAGCACTTTGGGAG
 GCTGAGGTAGGTGGAAAACCTGAGGTGAGGAGTTCAAGAACAGCCTGACCAACATGGTGA
 AACTCCATCTCTACTAAAAATACAAAAATTAACCAGGCTTGATGGTGTGCACCTGTAATC
 TCAGCTACTCGGGAGGCTGAGGCAAGAGAATCGCTTGAACCCAGGAGGCAGAGGTTGCAG
 TGCACCAAGACTGCGCCATTGCACTCCAGCCCGGGCAACAAGAGCGAAAACCCATCTCGA
 AAAAAACAAAACAAAACCTAGACAAGTGAGTGCCTACGTGACACTCAAATGTTGCCAGCA
 TACAGTTAAGGGCCCTAGTCAATGTAGGCCTGCTTCTTATAGCTTTTTGACTATATTATG
 CTGTCTTTGACTTAGTCAGTCAACACTTATTGAGCACCTACTAAGTGCCAAACACTCTCC
 TGGACTCTGGCAAAATAAAAAATGAATTAACACTCT

Gene 519. >ENST00000229480 cDNA sequence

GTTTCCCGGAAGGATAGCGATTACCGAGCGCCTCGCGCGCCTGCCCGCCTGCGGAGGAC
 CCGGGCGCACACGCCTTGGCGCTTCTCGAAAGAGATTTCCTCCCACGCGACCTTCCAGTT
 CTCGGAGCCAGGTTAGGGGTTTGGCGGAGGAGGACTGCGGGGCGCGGGCCTAGGGCCCCA
 GCAGCCACAGCCAGGGGAGCGCTCAAGACAGAAAGCCGGTGGCTTCTCACCTCCACCTG
 TAATGCAGGAGGGAGAATTGGCTATTTCTCCTATAAGCCCTGTGGCAGCCATGCCTCCCC
 TAGGCACCCACGTGCAAGCCAGATGTGAAGCTCAAATTAACCTGCTGGGTGAAGGGGGGA
 TCTGCAAGCTGCCAGGAAGACTCCGCATCCAGCCCGCACTGTGGAGCAGGGAGGACGTGC
 TGCACCTGGCTGCGCTGGGCAGAGCAGGAGTACTCTTGCCATGCACCGCGGAGCACGGGT
 TCGAGATGAACGGACGCGCCCTCTGCATCCTACCAAGGACGACTTCCGGCACCGTGCGC
 CCAGCTCAGGTGACGTCTGTATGAGCTGCTCCAGTACATCAAGACCCAGCGGCGAGCCC
 TGGTGTGTGGGCCCTTTTTTGGAGGGATCTTCAGGCTGAAGACGCCCACCCAGCACTCTC
 CAGTCCCCCGGAAGAGGTGACTGGCCCCCTCTCAGATGGACACCCGAAGGGGGCCACCTGC
 TGCAGCCACCAGACCCAGGGCTTACCAGCAACTTCGGCCACCTGGATGACCTGGCCTGG
 CAAGGTGGACCCCTGGCAAGGAGGAGTCCCTCAACTTATGTCACTGTGCAGAGCTCGGCT

FIGURE 1 (CONT'D)

GCAGGACCCAGGGGGTCTGTTCTTCCCCGCGATGCCGAGGCCCCATTGACGGCAGGA
TCGCTGACTGCCGCCTGCTGTGGGATTACGTGTATCAGCTGCTCCTTGATACCCGATATG
AGCCCTACATCAAGTGGGAAGACAAGGACGCCAAGATCTTCCGAGTTGTGGATCCAAATG
GGCTCGCCAGACTCTGGGGAAATCACAAGAACCGGGTGAACATGACCTACGAGAAGATGT
CTCGTGCCCTGCGCCACTATTATAAGCTTAATATCATTAAAGAAGGAACCGGGGCAGAAAC
TCCTGTTTCAGATTTCTAAAGACTCCGGGAAAGATGGTCCAGGACAAGCACAGCCACCTGG
AGCCGCTGGAGAGCCAGGAGCAGGACAGAATAGAGTTCAAGGACAAGAGGCCAGAAATCT
CTCCGTGAGGGGCAGGTGGACTCCAGGCACCCGGTACCGATGGGGCAGGGACCGAGTCTC
CCATGAAGGCAGACTCCTCCTCCCAGCAGAGCAGCAGGATCCCAGCCAGACTCTGTACC
CACAGGATTACAGCCATTGCTTGGGAAGGCTGGGAGGCCTCCCATCCAGGACACTGGGGG
CAGGAGTGTCTCTTTTGGGCAGGGCAATCCTGGGGCTAAATGAGGTACAGGGGAATGGA
CTCTCCCCTACTGCACCCCTGGGAGAGGAAGCCAGGCACCGATAGAGCACCCAGCCCCAC
CCCTGTAAATGGAATTTACCAGATGAAGGGAATGAAGTCCCTCACTGAGCCTCAGATTTTC
CTCACCTGTGAAATGGGCTGAGGCAGGAAATGGGAAAAGTGTAGTGCTTCCAGGCGGC
ACTGACAGCCTCAGTAAACAATAAAAAAATGGTAGCTG

Gene 520. >ENST0000322766 cDNA sequence

ATTCCCCCTCCTCCCCCGGGAGCGGCGGGCGGGCCGGGGCCCGGGCCCCAGCGCGGGCCG
GGAGGGGGCACGGCGGAGGCCACGGAGGCAGGCGGGGAGAAGACCGCGCTCCGCTTCCC
GGGCCGCGCCGACCTGCTCGGCGGCCTGCCCCCGCGCCAGGGGGCCCCGAACGGTGGG
GCCGGGCAGGCGGCTGAGGGCCTGTCCCCTCAGTTCCCAGGTGCCATGAGGAAGCCTCGT
CGGAAGTCCCGGCAGAATGCGGAGGGCCGGCGTTCCCCGTCCCCCTACAGTCTCAAGTGC
TCACCCACCCGGGAGACCTTGACATATGCCAGGCCAGCGGATTGTGAGGTAGACATT
GATGGACGCCTGCATCGTATCAGCATCTATGACCCACTCAAAATCATTACTGAAGATGAG
CTAACTGCCCAGGATATCACCGAATGCAATAGTAACAAGGAAAAAGGAATCCTGCTCCAAG
TTCCCTGGCAAGTCCAAGAAACCTCATCCAAGGGCAAAAAGAAGGAATCCTGCTCCAAG
CATGCATCTGGTACTTCTTCCACCTCCACAGCCCAGCTTCCGTATGGTGGACTCAGGC
ATCCAGCCAGAAGCACCCCCGCTGCCTGCTGCCTACTACCGCTACATTGAGAAGCCACCT
GAAGACCTGGATGCAGAGGTAGAGTATGACATGGATGAGGAGGACCTTGCCTGGCTGGAC
ATGGTGAATGAAAAACGGCGAGTAGATGGGCACAGTTTGGTGTCTGCAGATACCTTTGAG
CTGCTGGTAGACCGCTTGAGAAAGAGTCATACTTGGAGAGTCGCAGCAGTGGGGCCCAA
CAGTCACTCATCGATGAAGACGCTTTCTGCTGTGTGTGCCTGGATGATGAATGTCACAAT
AGCAATGTTATTCTCTTCTGTGACATCTGCAACCTGGCTGTACACCAGGAGTGCTATGGC
GTCCCATACATCCCTGAGGGCCAGTGGCTATGCCGCTGCTGCCTGCAGTCTCCCTCCCCG
CCTGTGGATTGCATCCTTTGCCCCAATAAGGGTGGCGCCTTCAAAACAGACCAGTGATGGG
CACTGGGCCCATGTGGTGTGTGCCATCTGGATCCCTGAAGTCTGCTTTGCTAACACCGTG
TTCTTGGAACTATTGAGGGCATTGACAATATCCCGCCTGCCCGCTGGAACTAACCTGC
TATATCTGCAAGCAGAAAGGGCTAGGTGCAGCCATCCAGTGCCATAAGGTGAACTGCTAC
ACAGCATTCCATGTGACATGTGCACAGCGGGCTGGGCTCTTCATGAAGATTGAGCCCATG
CGCGAAACCAGCCTCAATGGCACCATCTTTACAGTGCAGCAAGACTGCCTACTGTGAGGCC
CACTCGCCACCAGGTGCGGCCACTGCTAGGAGGAAGGGCGACTCCCCTAGAAGCATCAGT
GAGACTGGCGATGAGGAAGGGCTGAAGGAGGGTGATGGAGAGGAGGAAGAAGAGGAAGAG
GTGGAGGAAGAAGAGCAGGAAGCTCAAGGCGGGGTGAGTGGCTCCCTCAAGGGAGTGCCC
AAGAAAAGCAAGATGAGTTTGAAGCAGAAGATCAAGAAGGAGCCAGAGGAAGCAGGCCAA
GACACACCCTCCACTCTCCCATGCTTGCTGTCCACAGATACCCTCTTACAGGTTGAAC
AAGATCTGTAGTGGTCTCTCCTTTCAGAGGAAAAACAGTTTATGCAGCGGCTTCACAAT
TATTGGCTGTTGAAGCGGCAGGCACGGAATGGTGTCCCTCTTATCCGGCGCTTGCACTCC
CATCTGCAGTCCCAAAGAAAAGCTGAGCAGCGAGAGCAGGATGAGAAGACAAGTGCAGTG
AAGGAGGAGCTGAAGTATTGGCAGAAGCTCCGGCATGACTTGGAGCGGGCGCGGCTGCTG
ATTGAGCTGATTGGAAGAGAGAGAAGCTCAAACGAGAGCAGGTCAAAGTCCAGCAGGCT
GCCATGGAGCTGGAGCTGATGCCATTCAATGTTCTGTTGAGGACAACACTGGACCTGCTG
CAGGAGAAGGATCCTGCACACATCTTCGAGAACCAGTCAACTTGAGTGAGGCAAATTAC
CTGGAATTCATATCCAAGCCAATGGATTTTTCTACTATGAGGCGGAAGCTGGAGTCCCAC
CTGTACCGCACCTTGGAGGAGTTTGGAGGAGACTTAAACCTTATAGTTACCAACTGCATG
AAGTATAATGCTAAAGACACAATTTTCCACCGAGCAGCTGTCCGCTGCGGGACCTGGGA

FIGURE 1 (CONT'D)

GGGGCCATCCTACGGCACGCCCCGGCGGCAGGCAGAGAACATCGGCTATGACCCCGAGAGG
GGCACTCACCTGCCCCGAGTCAACCAAATTGGAAGACTTTTACCGCTTCTCCTGGGAAGAC
GTGGACAACATCCTCATCCCAGAGAACCGGGCCCATTTGTCCCCAGAGGTGCAGCTGAAG
GAGCTGCTGGAGAACTGGACCTGGTGAGCGCCATGCGGTCCAGTGGGGCCCCGACCCGT
CGTGTCCGCTGCTACGCCGGGAGATCAATGCCCTTCGGCAGAAGCTGGCACAGCCACCA
CCACCACAGCCACCATCACTCAACAAGACAGTATCCAATGGGGAGCTGCCAGCAGGGCCC
CAGGGGGATGCAGCTGTGCTGGAGCAGGCCTTGCCAGGAGGAGCCAGAAGACGATGGGGAC
AGAGATGACTCCAACTGCCTCCTCCGCCAACCTGGAGCCCCACTGGGCCTGCACCTTCC
TTGTCTGAGCAAGAATCCCCCCCCGAGCCCCCTACTCTGAAACCCATTAATGATAGCAAA
CCTCCAAGCAGGTTCTTAAAGCCCAGAAAGGTGGAAGAAGATGAGCTCTTGGAAAAATCA
CCACTGCAGCTAGGGAATGAGCCTTTGCAACGCTTGCTCAGTGACAATGGCATCAACAGA
CTATCCCTCATGGCCCCCTGACACCCCCGGCCGGTACCCCACTTAGTGGTGTGGGTGCGCGC
ACATCAGTCCTCTTCAAGAAGGCCAAGAATGGGGTTAAGCTACAGAGAAGCCAGACAGG
GTCTTGAGAAATGGCGAGGACCATGGTGTGGCAGGCTCTCCTGCCTCTCCAGCCAGCATC
GAGGAAGAGCGCCACTCCCGGAAGCGGCCAAGGAGCAGGAGCTGTAGTGAGAGCGAAGGG
GAGAGGTCCCCCAGCAGGAGGAAGAGACAGGCATGACCAACGGCTTTGGAAAAACACACC
GAAAGCGGGTCTGACTCTGAATGTAGTTTGGGTCTCAGTGGTGGACTGGCATTGTGAAGCT
TGCAGTGGTCTGACGCCCCCAACCGCAGCCGTGGGAAGCCAGCCCTGTCTCGAGTGCCC
TTCTTGGAAGGTGTGAACGGGAGCTCTGACTACAATGGCTCAGGCAGAAGCCTCCTGCTG
CCCTTTGAAGACCGCGGAGACCTGGAGCCCTTGAGAGCTGGTGTGGGCCAAGTGCCGAGGC
TACCCCTCCTACCCTGCCTTGATCATCGATCCCAAGATGCCCCGGGAGGGCCTCCTGCAC
AATGGCGTTCCCATCCCTGTCCCCCGCTGGACGTGCTGAAGCTGGGAGAGCAGAAACAG
GCAGAGGCTGGAGAGAAGCTCTTCTTGTCTCTCTTTGACAACAAGCGCACCTGGCAG
TGGCTTCCAAGGGACAAAGTCTTGCCTTGGGTGTGGAAGACACCGTGGACAAGCTCAAG
ATGCTGGAAGGCCGCAAGACCAGCATCCGCAAGTCAGTGAGGTGGCCTATGACCGTGCG
ATGATCCACCTGAGCAGAGTCCGGGGGCCCCACTCCTTCGTCACTTCAGCTACCTGTAA
GGGCAGGGCTGGGCCTGCATCCGCTTGCCCTGCCTCCATCCCGCAGGGCAAGAGAGCC
TCTTCTGCCCTGCCAGATGTATGGCCGGCAGCTTCCCCCTCTCATGGTAGGCCAGGGAC
TGGGCTTTCTCCCCACTAAGGGCAAGGCCCCAGTTTTGACCAATCGCATGGTTCTCCTGG
CAGGCCTGCTGTGTGCCAAAACTCCCAACCAAGGTCCCTCAGGGGATATTTCACTGAAG
AACCAGTTAGAAGTAGAAACAGCTGTGGGGCTTGGGCCCAGCTTAGGAGATTGCCAGAT
GGCAAGAGGTCTGGGCTCCTTCTTGAGGGGTGCCTGGCCCCGCTCCATCCTACTCCCAC
TAACTACACCTCAGGGCGGGTGAGGTTCCGACACTGATCCAGAGATGCCGTGGATACGC
CAGGGTCCAGGGGGAATCTCCCAAGCTCACACTCTCTCCCGCTTATCGCCTATTCTCA
CACCTCTTCTCGGTCCCATCTTCTGCACCCATTGCCAGTCTTGCTTTCTCTTTCCCAT
TTCTTTTCTTTTCTCTTGTGCCAACTGACAGAAACCGTCAACCACTGGTCTTTTTTC
TTTAATGTCTCATTCCTTTGAGGCCAGCTGCTATGCCAGGTGGTGTCTCTGCCAGGCTC
CTCAGGCCAGACAGAGGCCAGCCCAACCTATGACCCCCCTCCCCAGGACACCACCTC
CCACCCACAGACCTTCCCTTTAGCTGTTGACACAACCTTCCAGCTCTGCAAGTGTGCCCC
CTGGATCAAGGCGGGTCCCTCTTGTTTTTTCTTTGCTGCCACGAGGTGGTCCAAGCCT
TCAGGGTGGGCTCCTATCAGGCTGGGTGTGCGAGTGTCCATCTGTCCACATGGATGTGCA
GGGTGGTTTGTGTGGAGCTGTGCTCGTCAGCTGGGTCTGCCCTCTTCCCCCTTTTCTCCT
TCTTCTCTCCTCATGGACTTTTTCTGCAATTGCAGTCTTAAGCTTCACTCTCCACCACCT
GGATGGCATGGCGCCTGCCACCAAACATCTTCTGGCCTGCGCTCTGCCCTGCCCTGCCT
AGCCTCTGCTACTCCCACTTCCCAACTCCAGGGAATGCATTACTTTTATTTCAAACCTC
TGCCTCCTTCTTCTTTCTCTTCAACCCCTCCCCACCTTCACTTCTCAAAAATGGAAG
GAAAAAAACTGTGAATGGGGAATGCTGACTGACAAACCAACACAACCTTTTCAAGGCTT
CAGTGTCTGTTCTCTGGACATTTCTTTTCACTCCTGAGCACCAAGTCGAGGGCCAGT
TGCAGGCCGCTGATTGCCATGTTGATTTTAACTGATATTCTTTTAAATTGTTTAAAT
TTTTCATAGGGGAGTTTTGGACAAAACAGTCACTGGGGAGATCACTGCCATTTTACACA
CTTGACTTTTTTAAAAATACAACCAACCAACCACCAACTTCTTATACATTTGGGACATG
AGCCAGAGTTTAAAAGGGAACCAACAAAACACTATAACTTAAAAGGATGGGGTTTTGGAT
TTTGTATAATAATAAAAAAATAACAGCATATGGCTAGGGAAGGACATGGTGTATATAATT
GTAAAATACTGTTCTAAATTATTAGGCCTATAGTTTCCATTACTGGAGTCTCCATTGT

FIGURE 1 (CONT'D)

GTGGCCACACAGTGTCTGTTGATTTAAAGGAGCCAGTGCTTCCCCTCTCCCCAGGTAGTTG
 GTCAGCTGTGGACTCTGTGACCTTTGTCTAAACCTGTGTTGTAAGATCTTGGGACTTCCT
 CTCTTTCTATGTCTATCTCTTCCCCCAACACTTTCTCTCTTAGTCTCTCTCTTTATTT
 TTCAATCTCTGAATATTTTAGTCTCTCTCTGAGTCTCATTTTTTAAAATGCTCTTTTAGA
 ACGGGAAACGGCTCAGATCCTGCTGTGGCACGGGGCCTATGTGTCTCTGTGCGCTCTGCT
 GTGAAGCACATGATGCTCTATTTATTGTAGAGAGTGACTTTATTTGCTTTCTAGAATTGT
 TTATAACAGATGGTATAAGAGAGGTAATAAACAGAGAAAAATCTATGCTTGTAAGAATA
 CAAAAGTTAATTTTACCTACTATAATATGACTGTCTGAAACTTATTTTCTCTCTGAGAAA
 TAAATGTTCTAATGGGC

Gene 521. >ENST00000211291 cDNA sequence

CCGGGAGACCCTGACATATGCCCAGGCCAGCGGATTGTCGAGGTAGACATTGATGGACG
 CCTGCATCGTATCAGCATCTATGACCCACTCAAATCATTACTGAAGATGAGCTAACTGC
 CCAGGATATCACCGAATGCAATAGTAACAAGGAAAAACAGTGAAACAGCCTCAGTTCCCTGG
 CAAGTCCAAGAAACCTCATCCAAGGGCAAAAAGAAGGAATCCTGCTCCAAGCATGCATC
 TGGTACTTCCTTCCACCTCCCAAGCCAGCTTCCGTATGGTGGACTCAGGCATCCAGCC
 AGAAGCACCCCGCTGCCTGCTGCCTACTACCGCTACATTGAGAAGCCACCTGAAGACCT
 GGATGCAGAGGTAGAGTATGACATGGATGAGGAGGACCTTGCTTGGCTGGACATGGTGAA
 TGAAAAACGGCGAGTAGATGGGCACAGTTTGGTGTCTGCAGATACCTTTGAGCTGCTGGT
 AGACCGGCTTGAGAAAGAGTCATACTTGGAGAGTCGCAGCAGTGGGGCCCAACAGTCACT
 CATCGATGAAGACGCTTTCTGCTGTGTGTGCCTGGATGATGAATGTCACAATAGCAATGT
 TATTCTCTTCTGTGACATCTGCAACCTGGCTGTACACCAGGAGTGCTATGGCGTCCCAT
 CATCCCTGAGGGCCAGTGGCTATGCCGCTGCTGCCTGCAGTCTCCCTCCCGGCCTGTGGA
 TTGCATCCTTTGCCCAATAAGGGTGGCGCCTTCAAACAGACCAGTGATGGGCACTGGGC
 CCATGTGGTGTGTGCCATCTGGATCCCTGAAGTCTGCTTTGCTAACACCGTGTTCCTTGA
 ACCTATTGAGGGCATTGACAATATCCCGCCTGCCCGCTGGAACTAACCTGCTATATCTG
 CAAGCAGAAAGGGCTAGGTGCAGCCATCCAGTGCCATAAGGTGAACTGCTACACAGCATT
 CCATGTGACATGTGCACAGCGGGCTGGGCTCTTCATGAAGATTGAGCCCATGCGCGAAAC
 CAGCCTCAATGGCACCATCTTTACAGTGCGCAAGACTGCCTACTGTGAGGCCCCACTCGCC
 ACCAGGTGCGGCCACTGCTAGGAGGAAGGGCGACTCCCCTAGAAGCATCAGTGAGACTGG
 CGATGAGGAAGGGCTGAAGGAGGGTGATGGAGAGGAGGAAGAAGAGGAAGAGGTGGAGGA
 AGAAGAGCAGGAAGCTCAAGGCGGGGTGAGTGGCTCCCTCAAGGGAGTGCCCAAGAAAAG
 CAAGATGAGTTTGAAGCAGAAGATCAAGAAGGAGCCAGAGGAAGCAGGCCAAGACACACC
 CTCCACTCTCCCCATGCTTGCTGTCCACAGATACCTCTTACAGGTTGAACAAGATCTG
 TAGTGGTCTCTCCTTTTCAAGGAAAAACAGTTTATGCAGCGGCTTCACAATTATTGGCT
 GTTGAAGCGGCAGGCACGGAATGGTGTCCCTCTTATCCGGCGCTTGCACTCCCATCTGCA
 GTCCCAAAGAAACGCTGAGCAGCGAGAGCAGGATGAGAAGACAAGTGACAGTGAAGGAGGA
 GCTGAAGTATTGGCAGAAGCTCCGGCATGACTTGGAGCGGGCGCGGCTGCTGATTGAGCT
 GATTTCGGAAGAGAGAGAAGCTCAAACGAGAGCAGGTCAAAGTCCAGCAGGCTGCCATGGA
 GCTGGAGCTGATGCCATTCAATGTTCTGTTGAGGACAACACTGGACCTGCTGCAGGAGAA
 GGATCCTGCACACATCTTCGAGAACCAGTCAACTTGAGTGAGGTTTTATATGTTTTAGGT
 TCCAGATTACCTGGAATTCAATCCAAGCCAATGGATTTTTTCTACTATGAGGCGGAAGCT
 GGAGTCCCACCTGTACCGCACCTTGAGGAGGTTTGAGGAGGACTTTAACCTTATAGTTAC
 CAACTGCATGAAGTATAATGCTAAAGACACAATTTTCCACCGAGCAGCTGTCCGCCTGCG
 GGACCTGGGAGGGGCCATCCTACGGCACGCCCCGGCGGCAGGCAGAGAACATCGGCTATGA
 CCCCAGAGGGGGCACTCACTGCCCGAGTCACCCAAATTGGAAGACTTTTACCGCTTCTC
 CTGGGAAGACGTGGACAACATCCTCATCCCAGAGAACCGGGCCATTTGTCCCAGAGGT
 GCAGCTGAAGGAGCTGCTGGAGAACTGGACCTGGTGAGCGCCATGCGGTCCAGTGGGGC
 CCGCACCCGTCGTGTCCGCTGCTACGCCGGGAGATCAATGCCCTTCGGCAGAAGCTGGC
 ACAGCCACCACCACACAGCCACCATCACTCAACAAGACAGTATCCAATGGGGAGCTGCC
 AGCAGGGCCCCAGGGGGATGCAGCTGTGCTGGAGCAGGCCTTGACAGGAGGAGCCAGAAGA
 CGATGGGGACAGAGATGACTCCAACTGCCTCCTCCGCCAACCTTGAGGCCCACTGGGGC
 TGCACCTTCCTTGTCTGAGCAAGAATCCCCCCCCGAGCCCCCTACTCTGAAACCCATTAA
 TGATAGCAAACCTCCAAGCAGGTTCTTAAAGCCCAGAAAGGTGGAAGAAGATGAGCTCTT
 GGAAAAATCACCACTGCAGCTAGGGAATGAGCCTTTGCAACGCTTGCTCAGGCAGGGCTG

FIGURE 1 (CONT'D)

GGCCTGCATCCGCTTGCCCTGCCTCCATCCCGCAGGGCACAGAGAAGCCTCTTCTGCCCC
TGCCAGATGTATGGCCGGCAGCTTCCCCCTCTCATGGTAG

Gene 522. >ENST00000310390 cDNA sequence

ATGGAGCCCAATGCTACGTTTACCACGCAGCTCACGGCCACACCTGAGCGACTGCTCCGA
CTCATCTCTGCTGGGGTCTGTGGCCTCATCCTGCTGGTGGGGCTGTGAGCTAATGGGCTC
ATGCTGCTGGTGGTGGGCCGGGGCCGGGCTCCCCCAACCGCTCCACTCCCTGACCCAC
AGCCTCATGATGAACATCACGCCATCTGACCTGCTCTTCTGCGCTGCGTGGTGCCTGTG
CTGCTGCTGAGCTTCTGTCAGCACAACTGGTGGCTGGGCCCTGCCATCTGCACCATTAGC
CAGGCCACCAACACAGCCACCACGTTCTGCATCTTCTATAGCATGGTGGCCAAGCTCTC
CTGCGCCATGTGGCTGTGGCCCGGCTGACCTGGCCTTCCAGCCGGCTGGGGCACCTC
TTGCTGCTCTGTGGGGCCATGTGGGCCCTGGGCCTTACAGAATCCCTGCCCAACTGGCTG
TTCCAGAGGGTGGCAGTGGAGGAGGAGACAGCGGGGGCTCCCAAGACCCAGGCCTGCCTC
TTGCTCCTGAGCCCTGCTGGGACCTCCTGCTACATCAGCCTGCTGGGAGCCCTGGCCTTC
CTGCCATGCACGCTGGGGCTGGGCTGCTCTTTTCCAGCCACGTGGGCTGGCTCCTGTGGACC
CAGCCCCAAGGTCCCATGGGAGAGAGCATCCAGGAGCATTAA

Gene 523. >ENST00000244437 cDNA sequence

GAGAGAGTTGGTTGGTGTGGGGCCGGAGGAAAGCGGGAAGACTCATCGGAGCGTGTGGAT
TTGAGCCCGCCGATTTTTTAAACCCTAGATCTCGAAATGCATCGTGATTCTGTCCATTGG
ACTGTAAGGTTTATGTAGGCAATCTTGGAACAATGGCAACAAGACGGAATTGGAACGGG
CTTTTGGCTACTATGGACCACTCCGAAGTGTGTGGGTTGCTAGAAACCCACCCGGCTTTG
CTTTTGTGTAATTTGAAGATCCCCGAGATGCAGCTGATGCAGTCCGAGAGCTAGATGGAA
GAACACTATGTGGCTGCCGTGTAAGAGTGGAACTGTCTGAATGGTGAAAAAGAAGTAGAA
ATCGTGGCCACCTCCCTCTTGGGGTCTGCGCCCTCGAGATGATTATCGTAGGAGGAGTC
CTCCACCTCGTCGCAGATCTCCAAGAAGGAGAAGCTTCTCTCGCAGCCGGAGCAGGTCCC
TTTCTAGAGATAGGAGAAGAGAGAGATCGCTGTCTCGGGAGAGAAATCACAAGCCGTCCC
GATCCTTCTCTAGGTCTCGTAGTCTAGGTCAAATGAAAGGAAATAGAAGACAGTTT
GCAAGAGAAGTGGTGTACAGGAAATTACTTTCATTTGACAGGAGTATGTACAGAAAATTCA
AGTTTTGTTTTGAGACTTCATAAGCTTGGTGCATTTTTTAAGATGTTTTAGCTGTTCAAATC
TGTTTGTCTCTTGAAACAGTGACACAAAGGTGTAATTCTCTATGGTTTTGAAATGGATCAT
ACGAGGCATGTAATACCAAGAATTGTTACTTTACAATGTTCCCTTAAGCAAAATTGAATT
TGCTTTGAACTTTTAGTTATGCACAGACTGATAATAAACCTCTAAACCTGCCAGCGGAA
GTGTGTTTTTTTTTAAATTTAAATACAGAAACAACCTGGCAAAAATTGAACTAAGATTTAC
TTTTTTTTCCATAGCTGGGATATAGGCTGCAGCTATAGTTGAACAAGCAGTCTTTAAAAA
CTGCTGTGAAACACAGGCCATCAGGGAAAAACGAAATGCTGCAC'TATTAAATTAGAGGTTT
TTGAAAAATCCAACCTCTCATCCTGGGCAGAGGTTGCCTAGTTGGTATAGAATGTTAAGTT
TCAAGAAAGTTTACCTTTGCTTTAGGTCTAAGTTCTTATTTGATTGCTGTATATGGAT
ACATGGCTGTTTCGTGACATTCTTTATGTGCAAATTTGTGATTTCAAAAATGTCCTGCCAG
TTTAAGGGTACATTGTAGAGCCGAACCTTTGAGTTACTGTGCAAGATTTTTTTTTTCATGCT
GTCAATTGTAATATGTTTTGTGAGAATCCTTGGGATTAAAGTTTTGGTTACAAATTGTTTC
TTTAACTTGAAAGCCTGTTTTTCTTGCAAACTCAAATCTGTGAGCTTGGTACCAAGTCC
AGGTATAACATTCTATTGGAAGCCATACTTATATTTTCTTGTAAGTGCTTTTGAATTA
ATAAAATATTAGCATAATTGTGTATAGTCAGTTGAACCCACTGTTACCATTGTTCTTATC
CCATGGGAAGCAGTTGGTTACACGATTCTTATTTTATAAGAAACAGCTGAGAGGCACTAT
GGATTAGTCTTCTGAAGTGAAGGAAATATAGATGTCACCTAAGTGATAGTTAACCCATTT
TTTTTTTTTTTAGGCATAGAAGCCAGTTTCAAGGTCCATAATATTTAGTGACCAACATTTT
AAAGTATAGCAGCAACCTGGTTCTTAAACACAAAGTAAGTTGCCCATTAACAAATGGCTT
TTATCTTTAGCATGAAAACCTTCCACAGGTCTAAAAATTGCTTCCATTTTATAATTTGAG
GTGTTGCATGGGAATTCTAAGCTGATCCATCATGATGTAAAAGTTTCAATATGGTTCAA
ATGTAACAGTGCAGAATTGAATATGGAGGCATGCATAACCTTCTCTTAGAAAATGGCAG
GTGTTGTAATTTCAAATTTTTGTGCAATTAGATTAAATCATAATGCAACAGTC

Gene 524. >ENST00000244741 cDNA sequence

AGCTGAGGTGTGAGCAGCTGCCGAAGTCAGTTCTTGTGGAGCCGGAGCTGGGCGCGGAT
TCGCCGAGGCACCGAGGCACTCAGAGGAGGTGAGAGAGCGGCGGCAGACAACAGGGGACC
CCGGGCCGGCGGCCAGAGCCGAGCCAAGCGTGCCCGCTGTGTCCCTGCGTGTCCGCGA

FIGURE 1 (CONT'D)

GGATGCGTGTTTCGCGGGTGTGTGCTGCGTTACAGGTGTTTCTGCTGCAGGCGCCATGTC
 AGAACCGGCTGGGGATGTCCGTGAGAACCCTATGCGGCAGCAAGGCCTGCCGCCGCTCTT
 CGGCCAGTGGACAGCGAGCAGCTGAGCCGCGACTGTGATGCGCTAATGGCGGGCTGCAT
 CCAGGAGGCCCGTGAGCGATGGAACCTTCGACTTTGTCAACGAGACCACTGGAGGGTGA
 CTTTCGCTGGGAGCGTGTGCGGGCCCTTGGCCTGCCAAGCTCTACCTTCCACGGGGCC
 CCGGCGAGGCCGGGATGAGTTGGGAGGAGGCAGGCGGCCTGGCACCTCACCTGCTCTGCT
 GCAGGGGACAGCAGAGGAAGACCATGTGGACCTGTCACTGTCTTGTACCCTTGTGCCTCG
 CTAGGGGAGCAGGCTGAAGGGTCCCCAGGTGGACCTGGAGACTCTAGGGTCAAAAACG
 GCGGCAGACCAGCATGACAGATTTCTACCACTCAAACGCCGGCTGATCTTCTCAAGAG
 GAAGCCCTAATCCGCCCACAGGAAGCCTGCAGTCCTGGAAGCGGAGGGCCTCAAAGGCC
 CGCTCTACATCTTCTGCCTTAGTCTCAGTTTGTGTGTCTTAATTATTATTTGTGTTTTAA
 TTTAAACACCTCCTCATGTACATACCCTGGCCGCCCCCTGCCCCCAGCCTCTGGCATTGA
 GAATTATTTAAACAAAACTAGGCGGTTGAATGAGAGGTTCTAAGAGTGCTGGGCATTT
 TTATTTTATGAAATACTATTTAAAGCCTCCTCATCCCGTGTCTCCTTTTCTCTCTCCC
 GGAGGTTGGGTGGGCCGGCTTATGCCAGCTACTTCTCTCCCCAATTGTCCGCTGGGT
 GGTACCCTCTGGAGGGGTGTGGCTCCTTCCATCGCTGTCAAGGCGGTTATGAAATTCA
 CCCCCTTTCTGGACACTCAGACCTGAATTCCTTTTCAATTTGAGAAGTAAACAGATGGCA
 CTTTGAAGGGGCCTCACCGAGTGGGGGCATCATCAAAAACCTTTGGAGTCCCCTCACCTCC
 TCTAAGGTTGGGCAGGGTGACCTGAAGTGAGCAGCCTAGGGCTGAGCTGGGGACCTG
 GTACCCTCCTGGCTCTTGATACCCCCTCTGTCTTGTGAAGGCAGGGGGAAGGTGGGGTC
 CTGGAGCAGACCACCCGCTGCCCTCATGGCCCCTCTGACCTGCACTGGGGAGCCCGTC
 TCAGTGTGAGCCTTTTCCCTCTTTGGCTCCCCTGTACCTTTTGAGGAGCCCCAGCTACC
 CTTTTTCTCCAGCTGGGCTCTGCAATTCCCCTCTGCTGTGTCCCTCCCCCTTGTCTTT
 CCCTTCAGTACCCTCTCAGCTCCAGGTGGCTCTGAGGTGCCTGTCCACCCCCACCCCCA
 GCTCAATGGACTGGAAGGGGAAGGGACACACAAGAAGAAGGGCACCTAGTTCTACCTCA
 GGCAGCTCAAGCAGCGACCGCCCCCTCCTCTAGCTGTGGGGGTGAGGGTCCCATGTGGTG
 GCACAGGCCCCCTTGAGTGGGGTTATCTCTGTGTTAGGGGTATATGATGGGGGAGTAGAT
 CTTTCTAGGAGGGGAGACACTGGCCCCCTCAAATCGTCCAGCGACCTTCTCATCCACCCA
 TCCCTCCCCAGTTTATTGCACTTTGATTAGCAGCGGAACAAGGAGTCAGACATTTTAAGA
 TGGTGGCAGTAGAGGCTATGGACAGGGCATGCCACGTGGGCTCATATGGGGCTGGGAGTA
 GTTGTCTTTCTGGCACTAACGTTGAGCCCCCTGGAGGCACTGAAGTGCTTAGTGTACTTG
 GAGTATTGGGGTCTGACCCCAAACACCTTCCAGCTCCTGTAACATACTGGCCTGGACTGT
 TTTCTCTCGGCTCCCCATGTGTCTGTTTCCGTTTCTCCACCTAGACTGTAAACCTCTC
 GAGGGCAGGGACCACACCCTGTACTGTTCTGTGTCTTTACAGCTCCTCCCACAATGCTG
 AATATACAGCAGGTGCTCAATAAATGATTCTTAGTGACTTT

Gene 525. >ENST00000265344 cDNA sequence

TAACCTTTTCCGTCTGCAACCTTTAATAATTGAGAGGGTATGCGCAACTCAGAAAAGTGCG
 CCCGCTGAGGTTGGGTGCAGAGTGGACTGGAGGAAAGGCGACACCCATTTACGGTGCGGC
 CCCGGACGGGGTCCCCAGACACGGCCTTCCCGCGTGCCACGCGCGGAGGGGACTCTTAA
 CGTGAAGCGCTGGGTGACTCAGCCGCGTGGCCGCGCGGTCCGGGGCGGGGGCGCGCGCC
 GCTGCGGCACAGCCGGTCCCGGCTGCGGCTTCTGGCTGCGCGGCCTGCGCGCGCTCCCG
 GGCGGATTCCAGCCCCGAGCGGGACAGCGCGGCGGGGAGCGACGAGATTTCTCTCTGATC
 AAACGGACAGTTTCAAGACTCAGAATCTAAGGATGAATGTTCAACGTGGCAGTGACAGTGA
 CAGGTTATTGCGGCAGGAGGCCAGCTGCTTAGTGGATGATACTTTAGCTGTAGCCCAAGA
 AAAAGAAGCAAACAGCCTGGCTTCATCTGGTCTCATAATCTTACTTATCCTCTAGGTCC
 CAGGAATGAAGGTGCTTTACTCCATGAACTGTCTAATGACGGTGCTCATAAGCAGTTTGA
 TCACTACCTCGAAGAGCTCATCTTGCCCATCATGGTGGGCTGTGCCAAGAAAGGAGAACG
 AGAGTGCCACATTGTTGTGCTGACGGATGAGGATTCTGTGGACTGGGATGAAGACCACCC
 TCCACCAATGGGGGAGGAATATTCCCAAATTTCTTATAGCTCCAAGCTCTACAGATTCTT
 CAAATATATTGAGAATAGGGATGTTGCAAAAACAGTGTTAAAGGAACGGGGCCTAAAAAA
 CATTTCGATTGGAATTGAAGGTTACCTACCTGTAAAGAAAAAATTAAGAGAAGGCCTGG
 CGGCCGGTCTGAAGTCATCTATAATTATGTACAACGCCCTTCATCCAGATGTATGGGA
 AAAGGAAGAAGGGAAGAGTCGCCATGTGGATTTCAGTGTGTTTGAAGCAAATCCCTCAC
 GAATCTGGTAGCTGCTGGAGATGATGTCTTGGAGGACCAGGAGATATTAATGCATCACCC

FIGURE 1 (CONT'D)

ACCCCAAGTGGATGAACTTGACCGGCTAAATGCCCACTTTCTCAGATGGCTTCTAACGA
 CTTTCAGGATTAGGGCCAGCTGTGGGTCTACTCCTTGTTGGAGCCATCTCACCTGGGAT
 GCCTGCAGCCAGCCCTCCCTCGTGATTGTCTCACCTTGAGTAGGAGACATGCTTCTCCC
 CTAACCTTTTCTTTCTGCCATAATTAACATATGTCCTTTTCAGTAAGTCCATGCCTCTG
 GCAGGGGATGAAGAAGTACTCACTGGTAATTAGCTACCATCTTTCAGCAGCCCTGGTAA
 CTTGAAAAATTTGGGTCTGGTGCTGTTTCATTGAGTCTTGTGTAACTGCAAAAGCAGGAA
 AGGAAGTCAAGACTCCTGTTGCCTCGTGCTTAGCAAAGCAGTCCTTATCCTTTATACTCT
 GTTCTTGGGTTTTGTTTTGTCTTGTTTTATACCAGGCAAATTGCTTAGTAGCAAAGGGA
 CCAAACTGAAAAGGTGACAATCTCTAACTTCTAAAAGCAGACACCAATCGGATGCTCATT
 AGAGGTTAATGAAGATGCCATTCTTGGTGGCCTCTGCACCCAAATTGCATCTGGAAAGAA
 CTAGGGTCTCATTGAGAATGTCCAAAAGGAAATTCTTAAGAGCTTAAATTGAGATTTGTG
 TCTCATTAAATGCAGTGAAACAATTCAAAACCAACAGATTCTTGGCAGGAAGGATAATGG
 AATAACAGTGTGATGAGACCTTTTTAGCTTCAAGGTTTCGGAGTCTAAACAAATGGATG
 ATTCATTTGGAATGAACTCACAAATGCAAGTAGAAGGACCTCTCCAAATCAGGCCAGTTG
 GGTATCTCGGCTTGGAATCTGGTGTGAAACCATAGGTCTTAACA CTCTGGAGCAGCACA
 TTGCTGTGGATATGTCCAGGAGACCTTAGATATGGCTTAAAGGCTTTCAAGATGAGGACA
 GAAATTGCTTACAATTGCTCAGTTTCTCAACAGAAAGACTCATAAGAGTGCCAGCATGGG
 GTACATGGAGTGAAGCTGGGTGGGAAGCATCATCTGCACAGTCCCTGTCTAGTG CAGGA
 CTTTTCTCTGTATGTTTTCATACCATGGGATTTTTGGATATCAGTGTATTTTGGTTCTTG
 AAATAGCCTAATAGCTGCTCACACATTGGGTAGGAATATTATACCAATGTCATCCCCAAA
 GGAAGGGTGAGCTGAATGGAAATTAAGCCCAGTCATTTTATTTGATCTATTAGCTCTGTT
 ATCAGTGCATGATCACCCAGATCACCTCCTCAGCCACACAGTGCTGAACCATCTTCCC
 TCCTGTTCTCCATGGCTATTAATAGTATAGCTAAATTTAGAGTG CAGAGCCAGATATAAG
 TATTTTGGAAATTATCTCCAGTTTGTGGTAGAAGCTGACTGGAATACAGGTTGAGTATCT
 CTTATCCAAAATGCTAGGGACAGAAAGGTTTTGAGATTTTTTTCAGATTTTGGAACTTA
 ACAGTTGAGCACCCCAAATCTGAAAGGCTTCTGAACGTCATGTCAGCACTCAAAAAAGTG
 GATTTTGGAGCACTTCAAATTTTCGGATTTTTGGATTGGGATGCTCATCCTGTGTAGGAG
 AGGCTACTCGATTCCATTTAATGACTGTCTAGTCATAATCATCCAAAGATAAAAGCCAG
 GTAGATGTTGAAAGCTCTTTCCAGGGCTGAAAAAGTGTTCTTACGTTCTCTGCATGTGAC
 TAGCATCACTGTGGAAATTAATGCTCTGTTCTTCACTAGAATGTAGTAAGTGGTTAAACT
 GAGCTATCCCCACCTGATGACTATTGGCATCCATTTGCAAGGCCAATGGCCTGGATTAA
 GGGTTAGGATTATTTGTAGCTAGAAGGTAATTTTATTTCTGTGAAACTAATTGGCTCATA
 TTTGAGGTTAGGTGTGGCCTTGACCTTACCAGTACATTTATACCCACTACCAAGTTGACTA
 GCCCAGATAATTGTTAAATGGTGCTTCTTTCTGCTTCTCAGTAGACTTCCATGCCATTA
 CAAAGGAAATTTGAATTACCTAGTGTGTTGTATATTCCATGATAACTATGTATAACTTCTG
 TTACACAGCTTATGTATTGTTAACATTTAAGTGTAACCATGCCACAGCTAACACTTAAA
 AATGAAACTAATTAGTTCCTTGCTTAGGGAAAATGCCAGGTATGAAGTATGGCATATACT
 TGACACTGTCTGTGTAACCTTTACTTTTGCTCAGGCTTTCAAGATTGAGTCTTTTTTCC
 CCCAAATTAGGTTAACATGCATTTTGACCCCAACCTGTGGGGTTTGAGTAAGCTGGAAATC
 TGTGACGGTAGGCTTTCTAGTGTACAGAGGTGGTGGTGA CTGAAGGAAAAGCTGGGATCA
 CAGGTTCTTCTGATGGAGAGGAAGGTTTATTTCTATGCCCCTCC CACCACCCTCCACCT
 AGAGCTCACCAAGCCTGCTCCAGTCCCAGGGGCAGGCCATTCTGCAAAAGCAGGACCTC
 ACAGAAACAAGGGCTGGGTTGAGGTCACCCCCTTCAGAGTTGGTTCTTGGCCAGATGGGT
 AAGAGGCATTTGTAATTTTAAAAATGTGAACTTGGGTTTGGTGTGTTTCTTCTAAGTGCC
 TAAATAAGCAAGCCAGGCTGTTGATATTTTAGCCAGAGAAATCGGCAAGCCAAGATTAAAC
 CCGAATCTGAAGTTTAGAATCTTGAGTTTGATCTGCATCATATCATGCTGTTTGTATGA
 GGAAACATTTGCCACTGAGGAGTTGGAGGGAGGGCAAGACGACAGTGTTAAGTCAGATCA
 TTTAATGGTTTCCCCTAAGCCCTGGAAAAATATTTGAAAGAATGGCAGCAAAAAGGTTAA
 GAAAGCAAGCCAGATTTACTGCACAATATGCAGTACCCAGTACTACTTTAAATCCCAAGA
 GAACAGTGTGATGTCTAATATATACAGGTCTATGAAAATACTGTGGAATAAGCCAGGAA
 GGTTAGATGTGTTTGCAAATAAGTTGCCCAAAGGGTCCCCCTCTAAGTAAAACAAATATT
 CAGACCACAGGCTTTAATGTAACTGTCAAAAAGTGGGATGTGGAGGATTTTTGTTAAGT
 GTCATCGAAGTTAAAAAGCAAGGGTTTTTGGCCAGGCGTGGTGGCTCACGCCTGTAATC
 CCAGCACTTTGGGAGGCCGAGGCCGGCAAATCACCTAAGGT CAGGAGTTCGAGACCAGCC

FIGURE 1 (CONT'D)

TGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCCGGTGTGGT
GGCAAGTGCCTGTAGTCCAGCTACTTGGGAGGCTGAGGCAGGAGAACTGCTTGAACCCG
GGAGGTAGAGGTTGCAGTGAGCCACGATCATGCCACTGCACTCCAGCCTGGGCAACAGAG
CAAGACTCCATCTC

Gene 526. >ENST00000229812 cDNA sequence

CTCGGCCCCGGGCTGCCGCGCCAGCCCGTCTCCGCGCGGGGGACCGGGCTGCCTTGCC
CCTCAGCGCTCGCGTCTTTTCCGGCAGTTGGAACGCTTCCTGTTGTCTCACCCGTAACC
GCCTGTTGCCCCCTGTCTCAGAGTCCCTCACGCGTCCCCTCCCCTCTTTGGCTCGTTGGC
TGCCGCCGCCGGGGCTTCGCCAGCCTTCAAGTCGAGACTACTGGCCGAAGGGGCGTCTGC
GGCTCTCCGCCGTCCCCAGCCCTGCCTCTCCCTGGGCTCTGCAGCCATGGCAATGACAGG
CTCAACACCTTGCTCATCCATGAGTAACCAACAAGGAAAGGGTGACAATGACCAAAGT
GACACTGGAGAATTTTTATAGCAACCTTATCGCTCAACATGAAGAACGAGAAATGAGACA
AAAGAAGTTAGAAAAGGTGATGGAAGAAGAAGGCCTAAAAGATGAGGAGAAACGACTCCG
GAGATCAGCATGCTCGGAAGGAAACAGAGTTTCTTCGTTTGAAGAGAACAAAGACTTGG
ATTGGAAGATTTTGAGTCCTTAAAAGTAATAGGCAGAGGAGCATTGTTGGTGAGGTACGGCT
TGTTCAGAAGAAAGATACGGGACATGTGTATGCAATGAAAATACTCCGTAAAGCAGATAT
GCTTGAAAAAGAGCAGGTTGGCCACATTCGTGCGGAGCGTGACATTCTAGTGAGGCAGA
CAGTTTGTGGGTTGTGAAAATGTTCTATAGTTTTTCAGGATAAGCTAAACCTCTACCTAAT
CATGGAGTTCCTGCCTGGAGGGGACATGATGACCTTGTTGATGAAAAAAGACACTCTGAC
AGAAGAGGAGACTCAGTTTTATATAGCAGAAACAGTATTAGCCATAGACTCTATTACCA
ACTTGGAATTCATCCACAGAGACATCAAACCAGACAACCTTCTTTTGGACAGCAAGGGCCA
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TTATAGGAATCTGAACCACAGCCTCCCAGTGATTTCACTTTCAGAACATGAATCCAA
AAGGAAAGCAGAAACCTGGAAAAGAAATAGACGTCAGCTAGCCTTCTCCACAGTAGGCAC
TCCTGACTACATTGCTCCTGAGGTGTTTCATGCAGACCGGGTACAACAAGCTCTGTGATTG
GTGGTTCGCTTGGGGTGATCATGTATGAGATGCTCATCGGCTACCCACCTTTCTGTTCTGA
GACCCCTCAAGAGACATATAAGAAGGTGATGAACTGGAAAGAACTTTGACTTTTCTCTCC
AGAAGTTCCCCTCTCTGAGAAAGCCAAGGATCTAATTTTGAGGTTCTGCTGTGAATGGGA
ACATAGAATTGGAGCTCCTGGAGTTGAGGAAATAAAAAGTAACCTTTTTTTGAAGGCGT
TGACTGGGAACATATCAGAGAGAGACCTGCTGCAATATCTATTGAAATCAAAAGCATTGA
TGATACCTCAAACCTTCGATGAGTTTCCAGAATCTGATATTCTTAAGCCAACAGTGGCCAC
AAGTAATCATCCTGAGACTGACTACAAGAACAAGACTGGGTCTTCATCAATTACACGTA
CAAGCGCTTTGAGGGCCTGACTGCAAGGGGGGCAATACCTTCCCTACATGAAAGCAGCAAA
ATAGTACTCTTGCCACGGAATCCTATGTGGAGCAGAGTTCTTTGTATAACATCATGCTTT
TCCTCTCACACTCTTGAAGAGCTTCCAAGAAGTTGATGGAACCCACCAATATGTCATAGT
AAAGTCTCCTGAAATGTGGTAGTAAGAGGATTTTCTTCCATAATGCATCTGAAAACTGT
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AGCATCATGAGCCAATTTGATAGGTGTTTTAAAAATAAAGTGAAGTTTCTTAAGTTTCTC
AGAATGAAGGGGAAAAACAGCCATCATCCAACATTATTGAGATTGTCGTGTATAGTCATC
GAATATCAGCCAGTTTCTGTAATTTTGTGACACGCTCTCTGCCAAGCCCACCAAGTATTT
CCTTTATAGCTAAAAGTTCCATAGTACTAAGGAAATAAAGCAATAAAGACAGTCTCAGCA
GCCAGGATTCTGGCTGAAGGAAATGATCCGCCACCCTGAGGGTGGTGTAGTTTCTA
CCCATACTCAGCCTCAGGCGAGTGGCTTATAGCCTCCATTGATGGTGCACTTTATTTAT
GGTACTAAGATAAAGACTGTCAATCCATTGATTTATCTCCTCCTGTCCCCCATCTAAAAT
ACCCATGCTGCTTTTCTGAGTGTGATGGGGGTTACCAGCTTGATCCACTGTTGCTCTTA
GAAGGCCCAGAAAGTCTTTGGGCATTGCCAAGAAATCCCGGATTATGTGGAAAACCTCA
CTTTCTCTTACGGCTGTACCAGAAAATCCCTAAGACAGATCTTGCCGTGGACTAGCAAT
ACCTGCAAGTGCTGCCAATGGGAACTCAATTTATTCTGGGAACCTAACGAGGAGAGCCC
AGGCCTAGGCAGGAGGCCTGGAACCTCTTGGCTAAGGTGCTGTTTCTGTTTCTGCAAGG
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GACAAGTCTTGTAAAGCTCACTCCTCAGTCTTGGCACAGCCATGTTTTGTCTTCTCTC
TTGGTATTTCTTCTCTCCCACTTTAGCCATTTTGCCTTGGAAATCATGATTACAATTTTT
TCCTTTGCAGATGCCTTCTGGGGGATACTCCTCCCCACCCTAAAGGGTCGCCTGCAACT
TAGGCGGATTGGGTCTCTGCTGTGGCGTTCTCTTTGAGAGACCCTCTGAATTTTAGC

FIGURE 1 (CONT'D)

ACAAAGTGCCTTCTGTTTCACAGCTGCCACCACCTTTAGAGGAATTTTCGTCAGAAAAATG
TGGAGGCTCCATATTAATGCATTATTTTTTAAAAAGTTTGTATAACTCTTAAAGCATCAT
TTGCACCTATGTGGGAACCTTGCCTGTTGCAAAGTATTGTGGCCGAGCTGCAGCTGGGAG
CCTGCTTTCTGCCAGTCTTGAGGTTCTGAAGATCAGCTTTGAAAGGAAAGTATGTCCTAG
CTTAGCCATTGAGAAGAGAAAAATGGAATATCAGAGTTACAGTTGTCAGTGAACTACTT
TGGATTTTAACTCTTAGAGGAAGAAAAAGGTTAGGGAAGTGTCAACTCTGGATGAAGG
TGATGTGTTTGCCTCTCAGTCTTTCATTTCATAGCCTGCTAGTGAAAAGGAAGTAAATGAG
ATTCTTTTGTGTGACTTTGTAGTCTCTTTGTATTACCAATAGTTGGGGTGTGACTCCT
GTGTGTTTTGCAAGAATGTGTGGTAAGCCTGGGTAAAGAGAAGGAACTGCGGTGTTGGGA
GAGTCTTTGTGTTGGGGAGTGGCAGGGGATGATTTGTTTCAGGGGAAAATGCCACATTT
TAACTTTTAACTTCTGAATAAACTGTGT

Gene 527. >ENST00000244751 cDNA sequence

GGGCAGATTTGATTTTCCCGCAGCCCGGGCGCCCCGAGCCGAAGCCCGAGCCGAGGAGG
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GCGCAGCCCGGGCGCTCGGGCTCCGCGCTGCCGCGCCCCGCCACCCCGCCGCGCAGCGC
CCCATCCGGCGCCTCCCGCTCCTCAGCCCCCTCTCCCTGTCTTCTGCATCCCTCTACCT
CTGCCCCACAGACGCGCGTCCCTCTCCTGGTGGCCCTCTCCACGACTCCGCGTTTCCCTCC
CGGTGCCCTCTCCCCGAGCCCCCTCTCCCCGCGCCCCCTCTCTGCTTCCCGCTGTGCCCC
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GTTTCGACTCCTTGGCGGGCAGCATCCCGGCCACCAAGGTGGAGATCACCGTGTCTGTCAG
GAACCTCCTGGACAAAGACATGTTTTTCCAAGTCCGACCCACTGTGCGTCATGTATACCCA
AGGGATGGAGAACAAGCAGTGGCGGGAGTTTGGGCGCACCGAAGTCATCGACAACACGCT
CAATCCTGACTTCGTGCGCAAGTTCATTGTGGATTACTTTTTTCGAGGAGAAGCAGAACCT
CCGTTTTGATCTATACGACGTTGACTCTAAGAGTCCTGATTTATCCAAACACGATTTCCCT
GGGCCAGGCCTTCTGCACCCCTTGGAGAGATTGTGGGGTCCCTGGGAGCCGCTGGAAAA
GCCCCCTCAGATAGGCGCATTTCAGCCTGAATTCCAGGACGGGCAAACCCATGCCAGCTGT
GTCCAACGGTGGTGTCCCAGGAAAGAAATGTGGCACCATCATCCTGTCCGCTGAGGAGCT
CAGCAACTGTAGGGATGTGCCACCATGCAGTTCTGTGCCAACCAAGCTGGACAAGAAAGA
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CACCATTTGCCACAAGACCGAGGTTCATGAAGAACCCCTAAATCCAGTCTGGCAAACCTTT
CTCCATTCCCGTGAGAGCCCTCTGCAACGGCGACTACGATCGGACCATCAAGGTGGAGGT
GTACGACTGGGATCGGGACGGCAGCCATGACTTCATTGGGGAGTTTACCACCAGTTACCG
GGAGCTGGCCCGTGGGCGAGGCAATTCAACATCTATGAGGTGGTAAACCCGAAAAAGAA
AATGAAGAAAAAGAAATACGTGAATTCTGGCACAGTCACCCCTGCTTTCTTTGCTGTGGA
GTCAGAGTGACCTTCTTGAATACATCAAAGGAGGGACCCAGATCAACTTCACTGTGGC
CATTGATTTCACTGCCTCCAATGGGAACCCCTCACAGTCCACATCCCTGCACTACATGAG
CCCCTACCAGCTGAACGCCTACGCGCTGGCGCTGACTGCCGTGCGAGAGATCATCCAGCA
CTACGACAGTGACAAGATGTTCCCTGCCCTGGGCTTCGGGGCCAAGCTGCCCCCGGATGG
CAGAGTGTCCACGAGTTCCCACTGAATGGCAACCAGGAGAACCCCTCATGCTGTGGCAT
CGACGGCATCCTGGAGGCCTACCACCGCAGCCTGCGCACTGTGCAGCTGTACGGCCCCAC
CAACTTTGCCCCCGTGGTCACCCACGTGGCCAGGAATGCAGCGGCCGTGCAGGATGGCTC
CCAGTACTCGGTGCTGCTCATCTTACTGATGGGGTCATCTCGGACATGGCGCAGACCAA
GGAGGCCATTGTCAACGCTGCCAAGCTCCCATGTCCATCATTATCGTCGGCGTGGGCCA
GGCAGAGTTGACGCCATGGTGGAGCTGGATGGCGACGACGTGCGGATCTCCTCCCGGGG
GAAGCTGGCTGAACGCGACATCGTCCAGTTTGTACCCCTTCGGGGACTACGTGGACCGCAC
AGGCAACCACGTGCTGAGCATGGCCCCGCTGGCCCGAGACGTGCTGGCAGAGATCCCTGA
CCAAGTGGTGTCTACATGAAGGCACAGGGCATTGCCCCGCTCCCCACCCGCGCAGCACC
AACCCACTCGCCCTCGCAGTCCCCAGCCCGCAGCCCCCTGCGTCCCCCTGCACACGCA
CATCTGAACCTGGTCTCAGCAGGCAGGTGGCTGGGGCCTGGGAGAGGCCAGGTGAATGGG
AGGCCAGGGCCCCAGACTCCCCGAAGTTGGCCTGCCCGGCCTTTGGGACATCTGTGTGCC

FIGURE 1 (CONT'D)

TGGGAGGCTGCCAGGGGGTGGGGCTTCTGAAGACCCCTCCTCAATTTCTTGGCCTCACTT
 ATTGCCCAAACCCAGGGAGTTAGGGGGGTACGGGTGAAAGAGGGGTACACAGGGACCCAG
 CCCTTCTCTTCTTCCCAATACCTGGCTCTAACCAGCCAGGAAGGTGTAAACAATAAGG
 GTGATTGGGGTCCCTGTGCGCCACCCCGGCAATCCTATTTGCTTACCTGTCAACCTGAA
 GCCTGGGCTTGGCCTCCTCCAGCCCCCATCTCGTCCCATCCTCCCATGGTGTCTACTC
 CTGTCCCTGAGCCCCGCCCTGTGGTCTATCCTGTGCCCCGATTTCCAGTGAAACCCATGAA
 GCTGATGGGTTTGCAGGAAGGCCTGAACATGTGCACCTCCCAGGGACACTGGATGCGCT
 GGGAGCCCCGGGGAACCCATGGGGTGCTGTAATCATGGACCGTAGGCCATGTGATGGGCC
 TGAAGTGGAGGCTGCTCAGCACAGAGCCCTTTCTGGTGCTCTCGAACTCAGTACGATGC
 AAGTTCTAGACACACAGATGGCCTGTGGAGGCCTCTCCCTGGTGTGGGCCCCAGGTA
 TCCATGGTTGACTCCTGGCTTCAGGAATCCCTTCTCCCTCCAGAGGCTTCCCAGGGCCC
 TCGGTGCCCCAGCCTCTGCCCATCTGGAGGCCTGAGTAAGGAGTGGCTCAGCCCCACGTT
 CCCACACTGCTCCTGCTCTTTGCCCTGTATCCCATGAGGCTAGGAGACAGGAGTCCTGGG
 TTTGAGCCCTGCCTCCCCCACTGCCTAATGTGGGAACCAAGCAAGGCCCTTCTACCTT
 TTGGGCCTCAGTTTCCATGTCTGTACCAAGAGGGTTGACCAGATGGCCCCAGGTTTTTC
 CTTTAGGTCTGACATCCTGAGGGTCATTCATCCCATGCCCAGTTCCCCCATCCTACTCC
 TAACAGATGTGACCCTACTTGAGGCCGCTTGGCTTTTGGGTCAACCTGTCTCATCCCAT
 CACCCCAAACATACCTAGTCCTTCAGCCTGGGGCTCTGGCATCTGAGCCCCGAGCTCCTG
 CCCCTGCTGTGGGAAAGGTGGGGAAGAAGGGGATCTCCCTCCCGGGCCCCACCCAGCTGCC
 CAGCCTTTGCCCACTCGGGGAGCAGATCATGCATGCCAATCCCTGTTGCCGCATGGAGCT
 CCTCAGCCCACTGACCTCTCCGTGCCTGGTGCAGGCCAGGCCCCGCTTCCGCCTGCCT
 CTGCTTCCCGTCATGCATGGTGGTGGTGGTTTCTACGGTGTCTGGTTCTGTGCCCGTCTC
 TGAGACAGTCTCTGTGTGGAATTTGCCTTAAACTGAAGTAAATTTGGTTCTTTTAGT

Gene 528. >ENST0000244367 cDNA sequence

AAGTTTGCATTTTCTCTGTTCTTGAGCCCAGCTTCTTCTCGTCTCCACCCAGCTTCC
 CGGCATTGGAAGAAGGGACCGTCCTCTTCTTGTCTTGGCCACCCAAATCCTGGTATCGA
 AAGGGTTGAACGGACCGGAAGTGTGCAGCAGCGACGGGTCCCCAGCTAATCGACGCCGGA
 AGTAGCAATTACTAGACAAGCATTCCGCCGCCGGCTTCGCTATGGCGGCAATCCCCCAG
 ATTCTGGCAGCCACCCAACGTTTACTTGGAGACCAGCATGGGAATCATTGTGCTGGAGC
 TGTACTGGAAGCATGCTCCAAAGACCTGTAAGAACTTTGCTGAGTTGGCTCGTTCGAGGTT
 ACTACAATGGCACAATAATCCACAGAATTATCAAAGACTTCATGATCCAAGGAGGTGACC
 CAACAGGGACAGGTGAGGTGGTGCATCTATCTATGGCAAACAGTTTGAAGATGAACTTC
 ATCCAGACTTGAAATTCACGGGGGCTGGAATTTCTCGCAATGGCCAATGCGGGGCCAGATA
 CCAATGGCAGCCAGTTCTTTGTGACCCCTCGCCCCACCCAGTGGCTTGACGGCAAACACA
 CCATTTTTTGGCCGAGTGTGTGAGGGCATAGGAATGGTGAATCGCGTGGGAATGGTAGAAA
 CAAACTCCCAGGACCGCCCTGTGGACGACGTGAAGATCATTAAAGGCATACCCTTCTGGGT
 AGACTTGCTACCCCTCTTGAGCAGCTCTTCTGAGATGGCCCCAGTGAACCAGCTTCTAGAT
 GACATAGAATGACATGTAATGCTAAATTCATTTTGGCTTTGCAAGTCATGAAGCTTAGGA
 GGCCTGGCATCTTGGGTGAGTTAGAGATGGAAGTACATTTTAATAGGATGCTTCTTTTCT
 CTTCCCCAGTGCCTAGGTTGCCAGAGCATTGTGCACAAATGCCCTGTTTATCAATAGGT
 GACTACTTACTACACATGAACCATATGCTGCTTCTGTGCATGTCTGCTCTGATATACG
 TCGAACAATGTAGCAGCCACTGTCATTTCTCAGTGGTTTTGCCTAACCAAACCTTCTTCT
 AAGGAGATTTATATTCTGGCCTACACAGCAGTCCTTGATGGCTGACAGCCACAGAATTC
 AAACCAAGTAGTGTCTGTGAGCCCTCTTAACTCTGTGCACGCCCTATTTTCACTCTTTTAC
 ATTTGTTCTTCTAGGGAATGTATGCATCTCTATATATATTTTCCCTCTCAAAACAGAAC
 ATCAACAGTGCTGTTTCTGACACTTCAGACATCCACGCAAAGCCACATTGAATTTTTGC
 CAAATGAAAAACACATCCAACAATCAAGTTTCTAAGAAGGTGTCAAGTGGGGAATAATAA
 TAATGTATAATAATCAAGAAATTAGTTTATTAAAAGGAAGCAGAAGCATTGACCATTTTT
 TCCCAGAGAAGAGGAGAAATCTGTAGTGAGCAAAGGACAGACCATGAATCCTCCTTGAGA
 AGTAGTACTCTCAGAAAGGAGAAGCGCCACTCAAGTTCTTTTAAACCAAGACTTTAGAGA
 AATTAGGTCCAAGATTTTTATATGTTTCAAGTTGTTTATGTATAAAAAATAACTTTCTGGATT
 TTGTGGGGAGGAGCAGGAGAGGAAGGAAGTTAATACCTATGTAATACATAGAACTTCCA
 CAATAAAATGCCATTGATGGTTG

Gene 529. >ENST0000229824 cDNA sequence

FIGURE 1 (CONT'D)

GATTACCTCTTCCATGTTCATCTTTCTGGGAGACTCCAACGTGGGCAAAACATCCTTCCTG
CACCTGCTGCACCAGAATTCTTTGCGCACCGGATTGACAGCTACCGTGGGAGTAGATTTT
CGGGTCAAAACCTTGCTGGTGGACAACAAGTGCTTTGTGCTGCAGCTCTGGGACACAGCT
GGCCAAGAGAGGTACCACAGTATGACGCGACAGCTGCTCCGCAAGGCTGACGGGGTGGTG
CTCATGTACGACATCACCTCCCAGGAGAGCTTTGCCACGTGCGCTACTGGCTAGACTGT
CTCCAGGATGCAGGGTGGATGGGGTGGTTCATCTTCTCCTGGGAAACAAGATGGACTGT
GAGGAGGAACGGCAAGTGTCCGTGGAAGCTGGGCAGCAACTGGCCAGGAACTGGGGGTCT
TATTTTGGGAGTGAGTGCCGCTTGGGTCAACAATCCTGGAGCCTGTAGTAAACCTG
GCCAGGTAA

Gene 530. >ENST00000211287 cDNA sequence

GCGGCGCGGGGCGGGCGCAGCGGGGTGCGGGCGCTGGGAGCCCGTTGGGCCGCGAACGC
AGCCGCCACGCTGGGGCCGCGAGATCGGGTGCCCGGATGAGCCTCATCCGAAAAAGG
GCTTCTACAAGCAGGACGTCAACAAGACAGCCTGGGAGCTGCCAAGACCTACGTGTCCC
CGACGCACGTCCGCAGCGGGCCTATGGCTCCGTGTGCTCGGCCATCGACAAGCGGTGAG
GGGAGAAGGTGGCCATCAAGAAGCTGAGCCGACCTTTTCAGTCCGAGATCTTCGCCAAGC
GCGCCTACCGGGAGCTGCTGCTGCTGAAGCACATGCAGCATGAGAACGTCATTGGGCTCC
TGGATGTCTTCAACCCAGCCTCCTCCCTGCGCAACTTCTATGACTTCTACCTGGTGATGC
CCTTCATGCAGACGGATCTGCAGAAGATCATGGGGATGGAGTTTCAGTGAGGAGAAGATCC
AGTACCTGGTGTATCAGATGCTCAAAGGCCCTTAAGTACATCCACTCTGCTGGGGTCGTGC
ACAGGGACCTGAAGCAGGCAACCTGGCTGTGAATGAGGACTGTGAACTGAAGATTCTGG
ATTTTGGGCTGGCGCGACATGCAGACGCCGAGATGACTGGCTACGTGGTGACCCGCTGGT
ACCGAGCCCCGAGGTGATCCTCAGCTGGATGCACTACAACCAGACAGTGGACATCTGGT
CTGTGGGCTGTATCATGGCAGAGATGCTGACAGGGAAAACCTCTGTTCAAGGGGAAAGATT
ACCTGGACCAGCTGACCCAGATCCTGAAAGTGACCGGGGTGCCTGGCACGGAGTTTGTGC
AGAAGCTGAACGACAAAGCGGCCAAATCCTACATCCAGTCCCTGCCACAGACCCCAGGA
AGGATTTCACTCAGCTGTTCCACGGGCCAGCCCCAGGCTGCGGACCTGCTGGAGAAGA
TGCTGGAGCTAGACGTGGACAAGCGCCTGACGGCCGCGCAGGCCCTCACCATCCCTTCT
TTGAACCTTCCGGGACCTGAGGAAGAGACGGAGGCCAGCAGCCGTTTGATGATTCTT
TAGAACACGAGAACTCACAGTGGATGAATGGAAGCAGCACATCTACAAGGAGATTGTGA
ACTTCAGCCCCATTGCCCGGAAGGACTCACGGCGCCGGAGTGGCATGAAGCTGTAGGGAC
TCATCTTGCATGGCACCGCCGGCCAGACACTGCCCAAGGACCAAGTATTTGTCACTACCAA
ACTCAGCCCTTCTTGAATACAGCCTTTCAAGCAGAGGACAGAAGGGTCTTCTCCTTAT
GTGGGAAATGGGCCTAGTAGATGCAGAATTCAAAGATGTGGTTGGGAGAACTAGCTCT
GATCCTAACAGGCCACGTTAAACTGCCCATCTGGAGAATCGCCTGCAGGTGGGGCCCTTT
CCTTCCCGCCAGAGTGGGGCTGAGTGGGCGCTGAGCCAGGCCGGGGGCTATGGCAGTGA
TGCTGTGTTGGTTTCTAGGGATGCTCTAACGAATTACCACAAACCTGGTGGATTGAAAC
AGCAGAACTTGATTCCCTTACAGTTCTGGAGGCTGGAAATCTGGGATGGAGGTGTTGGCA
GGGCTGTGGTCCCTTTGAAGGCTCTGGGGAAGAATCCTTCTTGGCTCTTTTGTAGCTTGT
GGCGGCAGTGGGCAGTCCGTGGCATTCCCCAGCTTATTGCTGCATCACTCCAGTCTCTGT
CTCTTCTGTTCTCTCCTCTTTTAAACAACAGTCATTGGATTAGGGCCACCTAATCCTG
TGTGATCTTATCTTGATCCTTATTAATTAACCTGCAAATACTCTAGTTCCAAATAAAGT
CACATTCTCAGGTTCCAGGTGGACATGA

Gene 531. >ENST00000229795 cDNA sequence

GGAACCGCGACCACTGGAGCCTTAGCGGGCGCAGCAGCTGGAAACGGGAGTACTGCGACGC
AGCCCGGAGTCGGCCTTGTAGGGGCGAAGGTGCAGGGAGATCGCGGCGGGCGCAGTCTTG
AGCGCCGGAGCGCGTCCCTGCCCTTAGCGGGGCTTGCCCCAGTCGCAGGGGCACATCCAG
CCGCTGCGGCTGACAGCAGCCGCGCGCGCGGGAGTCTGCGGGGTGCGGCGAGCCGACCT
GCGCGGGCGACACGCGCAAGGTCCCCGCCCGGCTGGGCGGGCAGCAAGGGCCGGGGAGAG
GGTGCGGGTGCAGGCGGGGGCCCCACAGGGCCACCTTCTTGCCCGGCGGCTGCCGCTGGA
AAATGTCTCAGGAGAGGCCACGTTCTACCGGCAGGAGCTGAAACAAGACAATCTGGGAGG
TGCCCGAGCGTTACCAGAACCTGTCTCCAGTGGGCTCTGGCGCCTATGGCTCTGTGTGTG
CTGCTTTTGACACAAAAACGGGGTTACGTGTGGCAGTGAAGAAGCTCTCCAGACCATTTT
AGTCCATCATTATGCGAAAAAGAACCTACAGAGAACTGCGGTTACTTAAACATATGAAAC
ATGAAAATGTGATTGGTCTGTTGGACGTTTTTACACCTGCAAGGTCTCTGGAGGAATTCA

FIGURE 1 (CONT'D)

ATGATGTGTATCTGGTGA CCCATCTCATGGGGGCAGATCTGAACAACATTGTGAAATGTC
AGAAGCTTACAGATGACCATGTTTCAGTTCCTTATCTACCAAATTCTCCGAGGTCTAAAGT
ATATACATTACAGCTGACATAATTACAGGGACCTAAACCTAGTAATCTAGCTGTGAATG
AAGACTGTGAGCTGAAGATTCTGGATTTTGGACTGGCTCGGCACACAGATGATGAAATGA
CAGGCTACGTGGCCACTAGGTGGTACAGGGCTCCTGAGATCATGCTGAACTGGATGCATT
ACAACCAAGACAGTTGATATTTTGGTCAGTGGGATGCATAATGGCCGAGCTGTTGACTGGAA
GAACATTGTTTTCTGGTACAGACCATATTAACCAGCTTCAGCAGATTATGCGTCTGACAG
GAACA CCCCCGCTTATCTCATTAAACAGGATGCCAAGCCATGAGGCAAGAACTATATTC
AGTCTTTGACTCAGATGCCGAAGATGAACTTTGCGAATGTATTTATTGGTGCCAATCCCC
TGGCTGTGCACTTGCTGGAGAAGATGCTTGTATTGGACTCAGATAAGAGAATTACAGCGG
CCCAAGCCCTTGACATGCCTACTTTGCTCAGTACCACGATCCTGATGATGAACCAAGTGG
CCGATCCTTATGATCAGTCCTTTGAAAGCAGGGACCTCCTTATAGATGAGTGGAAAAGCC
TGACCTATGATGAAGTCATCAGCTTTGTGCCACCACCCCTTGACCAAGAAGAGATGGAGT
CCTGAGCACCTGGTTTTCTGTTCTGTTGATCCCACTTCACTGTGAGGGGAAGGCCTTTTCA
CGGGAACCTCTCAAATATTATTCAAGTGCCTCTTGTTCAGAGATTTCTCCATGGTGGA
AGGGGGTGTGCGTGCCTGTGCGTGCCTGTTAGTGTGTGTGCATGTGTGTGTCTGTCTTTG
TGGGAGGGTAAGACAATATGAACAACTATGATCACAGTGACTTTACAGGAGGTTGTGGA
TGCTCCAGGGCAGCCTCCACCTTGCTCTTCTTTCTGAGAGTTGGCTCAGGCAGACAAGAG
CTGCTGTCTTTTTAGGAATATGTTCAATGCAAAGTAAAAAATATGAATTGTCCCAATC
CCGGTCATGCTTTTTGCCACTTTGGCTTCTCCTGTGACCCACCTTGACGGTGGGGCGTAG
ACTTGACAACATCCCAAGTGGCACGGAGAGAAGGCCCATACCTTCTGGTTGCTTCAGAC
CTGACACCGTCCCTCAGTGATACGTACAGCCAAAAGGACCAACTGGCTTCTGTGCACTA
GCCTGTGATTAACCTTGCTTAGTATGGTTCTCAGATCTTGACAGTATATTTGAAACTGTAA
ATATGTTTTGTGCCTTAAAAGGAGAGAAGAAAGTGTAGATAGTTAAAAGACTGCAGCTGCT
GAAGTTCTGAGCCGGGCAAGTGCAGAGGGCTGTTGGACAGCTGCTTGTGGGCCCGGAGTA
ATCAGGCAGCCTTCATAGGCGGTTCATGTGTGCATGTGAGCACATGCGTATATGTGCGTCT
CTCTTTCTCCCTCACCCCCAGGTGTTGCCATTTCTCTGCTTACCCTTCACCTTTGGTGCA
GAGGTTTTCTTGAATATCTGCCCCAGTAGTCAGAAGCAGGTTCTTGATGTGATGTAATTC
TGTTGTAATCTTTATTTCTAGCAGAGTGAGGATGTGTTTTGCACGTCTTGCTATTTGAGCA
TGCACAGCTGCTTGTCTGCTCTCTTCAGGAGGCCCTGGTGTGAGGCAGGTTTGCCAGTG
AAGACTTCTTGGGTAGTTTAGATCCCATGTACCTCAGCTGATATTATGGCAAGTGATAT
CACCTCTCTTCAGCCCCCTAGTGCTATTCTGTGTTGAACACAATTGATACTTCAGGTGCTT
TTGATGTGAAAATCATGAAAAGAGGAACAGGTGGATGTATAGCATTTTTATTTCATGCCAT
CTGTTTTCAACCAACTATTTTTTGGGAATTATCATGGGAAAAGACCAGGGCTTTTCCCAG
GAATATCCCAAACCTTCGGAAACAAGTTATTCTCTTCACTCCCAATAACTAATGCTAAGAA
ATGCTGAAAATCAAAGTAAAAAATTAAAGCCCATAAGGCCAGAACTCCTTTTGCTGTCT
TTCTCTAAATATGATTACTTTAAAATAAAAAAGTAACAAGGTGTCTTTTCCACTCCTATG
GAAAAGGGTCTTCTTGGCAGCTTAACATTGACTTCTTGGTTTTGGGGAGAAATAAATTTTG
TTTCAGAATTTTGTATATTGTAGGAATCCTTTGAGAATGTGATTCTTTTGATGGGGAGA
AAGGGCAAATTATTTTAAATATTTTGTATTTTCAACTTTATAAAGATAAAATATCCTCAGG
GGTGGAGAAGTGTGTTTTTATAACTTGCTGAATTTTCAGGCATTTTGTCTACATGAGGA
CTCATATATTTAAGCCTTTTGTGTAATAAGAAAGTATAAAGTCACTTCAGTGTTGGCTG
TGTGACAGAATCTTGTATTTGGGCCAAGGTGTTTCCATTTCTCAATCAGTGACGTGATAC
ATGTACTCCAGAGGGACAGGGTGGACCCCTGAGTCAACTGGAGCAAGAAGGAAGGAGGC
AGACTGATGGCGATTCCCTCTCACCCGGGACTCTCCCCCTTTCAAGGAAAGTGAACCTTT
AAAGTAAAGGCCTCATCTCCTTTATTGTCAGTTCAAATCCTCACCATCCACAGCAAGATGA
ATTTTATCAGCCATGTTTGGTTGTAAATGCTCGTGTGATTTCTACAGAAATACTGCTCT
GAATATTTTGTAAATAAAGGTCTTTGCACATGTGACCACATACGTGTTAGGAGGCTGCATG
CTCTGGAAGCCTGGACTCTAAGCTGGAGCTCTTGAAGAGCTCTTCGGTTTCTGAGCATA
ATGCTCCCATCTCCTGATTTCTCTGAACAGAAAAAAGAGAGAATGAGGGAAATTGCT
ATTTTATTTGTATTCATGAACCTTGCTGTAAATCAGTTATGCCGTATAGGATGTCAGACAA
TACCACTGGTTAAAATAAAGCCTATTTTTCAAATTT

Gene 532. >ENST00000310795 cDNA sequence

GGAACCGCGACCACTGGAGCCTTAGCGGGCGCAGCAGCTGGAACGGGAGTACTGCGACGC

FIGURE 1 (CONT'D)

AGCCCGGAGTCGGCCTTGTAGGGGCGAAGGTGCAGGGAGATCGCGGCGGGCGCAGTCTTG
AGCGCCGGAGCGCGTCCCTGCCCTTAGCGGGGCTTGCCCCAGTGCAGGGGCACATCCAG
CCGCTGCGGCTGACAGCAGCCGCGCGCGGGAGTCTGCGGGGTGCGGCAGCCGCACCT
GCGCGGGCGACCAGCGCAAGGTCCCCGCCGGCTGGGCGGGCAGCAAGGGCCGGGGAGAG
GGTGCGGGTGCAGGCGGGGGCCCCACAGGGCCACCTTCTTGCCCGGCGGCTGCCGCTGGA
AAATGTCTCAGGAGAGGGCCACGTTCTACCGGCAGGAGCTGAAACAAGACAATCTGGGAGG
TGCCCGAGCGTTACCAGAACCTGTCTCCAGTGGGCTCTGGCGCTATGGCTCTGTGTGTG
CTGCTTTTGACACAAAAACGGGGTTACGTGTGGCAGTGAAGAAGCTCTCCAGACCATTTC
AGTCCATCATTATGCGAAAAGAACCTACAGAGAACTGCGGTTACTTAAACATATGAAAC
ATGAAAATGTGATTGGTCTGTTGGACGTTTTTACACCTGCAAGGTCTCTGGAGGAATTCA
ATGATGTGTATCTGGTGACCCATCTCATGGGGGCAGATCTGAAACAACATTGTGAAATGTC
AGAAGCTTACAGATGACCATGTTTCAGTTCCTTATCTACCAAATTCTCCGAGGTCTAAAGT
ATATACATTACAGTGCATAATTACAGGGACCTAAAACCTAGTAATCTAGCTGTGAATG
AAGACTGTGAGCTGAAGATTCTGGATTTTGGACTGGCTCGGCACACAGATGATGAAATGA
CAGGCTACGTGGCCACTAGGTGGTACAGGGCTCCTGAGATCATGCTGAACTGGATGCATT
ACAACCAGACAGTTGATATTTTGGTCAGTGGGATGCATAATGGCCGAGCTGTTGACTGGAA
GAACATTGTTTTCTGGTACAGACCATATTGATCAGTTGAAGCTCATTTTAAAGACTCGTTG
GAACCCAGGGGCTGAGCTTTTGAAGAAAATCTCCTCAGAGTCTGCAAGAACTATATTC
AGTCTTTGACTCAGATGCGAAGATGAACTTTGCGAATGTATTTATTGGTGCCAATCCCC
TGGCTGTGCACTTGCTGGAGAAGATGCTTGTATTGGACTCAGATAAGAGAATTACAGCGG
CCCAAGCCCTTGACATGCCTACTTTGCTCAGTACCACGATCCTGATGATGAACCAGTGG
CCGATCCTTATGATCAGTCTTTTGAAGCAGGGACCTCCTTATAGATGAGTGGAAAAGCC
TGACCTATGATGAAGTCATCAGCTTTGTGCCACCACCCCTTGACCAAGAAGAGATGGAGT
CCTGAGCACTGGTTTTCTGTTCTGTTGATCCCACTTCACTGTGAGGGGAAGGCCTTTTCA
CGGGAACCTCTCAAATATTATTCAAGTGCCTCTTGTTGCAGAGATTTCTCCATGGTGGA
AGGGGGTGTGCGTGCGTGCGTGCGTGTAGTGTGTGTGCATGTGTGTGTCTGTCTTTG
TGGGAGGGTAAGACAATATGAACAACTATGATCACAGTGACTTTACAGGAGGTTGTGGA
TGCTCCAGGGCAGCCTCCACCTTGCTCTTCTTTCTGAGAGTTGGCTCAGGCAGACAAGAG
CTGCTGTCTTTTTAGGAATATGTTCAATGCAAAGTAAAAAATATGAATTGTCCCCAATC
CCGGTCATGCTTTTGCCACTTTGGCTTCTCCTGTGACCCACCTTGACGGTGGGGCGTAG
ACTTGACAACATCCACAGTGGCACGGAGAGAAGGCCCATACCTTCTGGTTGCTTCAGAC
CTGACACCGTCCCTCAGTGATACGTACAGCCAAAAAGGACCAACTGGCTTCTGTGCACTA
GCCTGTGATTAACTTGCTTAGTATGGTTCTCAGATCTTGACAGTATATTTGAACTGTAA
ATATGTTTTGTGCCTTAAAAGGAGAGAAGAAAGTGTAGATAGTTAAAAGACTGCAGCTGCT
GAAGTTCTGAGCCGGGCAAGTCGAGAGGGCTGTTGGACAGCTGCTTGTGGGCCCGGAGTA
ATCAGGCAGCCTTCATAGGCGGTCTGTGTGCATGTGAGCACATGCGTATATGTGCGTCT
CTCTTTCTCCCTCACCCCCAGGTGTTGCCATTTCTCTGCTTACCCTTCACCTTTGGTGCA
GAGGTTTCTTGAATATCTGCCCCAGTAGTCAGAAGCAGGTTCTTGATGTGATGTAATTTCC
TGTGTAATCTTTATTTCTAGCAGAGTGAGGATGTGTTTTGCACGTCTTGCTATTTGAGCA
TGCACAGCTGCTTGTCTGCTCTCTTCAGGAGGCCCTGGTGTGAGGCAGGTTTGCCAGTG
AAGACTTCTTGGGTAGTTTAGATCCCATGTACCTCAGCTGATATTATGGCAAGTGATAT
CACCTCTCTTCAGCCCCTAGTGCTATTCTGTGTTGAACACAATTGATACTTCAGGTGCTT
TTGATGTGAAAATCATGAAAAGAGGAACAGGTGGATGTATAGCATTTTTATTATGCCAT
CTGTTTTCAACCAACTATTTTTTGAAGAAATATCATGGGAAAAGACCAGGGCTTTTCCCAG
GAATATCCCAAACCTTCGAAACAAGTTATTCTCTTCACTCCCAATAACTAATGCTAAGAA
ATGCTGAAAATCAAAGTAAAAAATTAAGGCCCATAGGCCAGAACTCCTTTTGCTGTCT
TTCTCTAAATATGATTACTTTAAAATAAAAAAGTAACAAGGTGTCTTTTCCACTCCTATG
GAAAAGGGTCTTCTTGGCAGCTTAACATTGACTTCTTGGTGTGGGGAGAAATAAATTTTG
TTTCAGAATTTTGTATATTGTAGGAATCCTTTGAGAATGTGATTCTTTTGTATGGGGAGA
AAGGGCAAATTTATTTAATATTTTGTATTTTCAACTTTATAAAGATAAAATATCCTCAGG
GGTGGAGAAGTGTGTTTTATAACTTGCTGAATTTTCAGGCATTTTGTCTACATGAGGA
CTCATATATTTAAGCCTTTTGTGTAATAAGAAAGTATAAAGTCACTTCCAGTGTTGGCTG
TGTGACAGAATCTTGTATTTGGGCCAAGGTGTTTCCATTTCTCAATCAGTGCAGTGATAC
ATGTACTCCAGAGGGACAGGGTGGACCCCTGAGTCAACTGGAGCAAGAAGGAAGGAGGC

FIGURE 1 (CONT'D)

AGACTGATGGCGATTCCCTCTCACCCGGGACTCTCCCCCTTTCAAGGAAAGTGAACCTTT
AAAGTAAAGGCCTCATCTCCTTTATTGCAGTTCAAATCCTCACCATCCACAGCAAGATGA
ATTTTATCAGCCATGTTTGGTTGTAAATGCTCGTGTGATTTCTACAGAAATACTGCTCT
GAATATTTTGTAAATAAAGGTCTTTGCACATGTGACCACATACGTGTTAGGAGGCTGCATG
CTCTGGAAGCCTGGACTCTAAGCTGGAGCTCTTGGAAGAGCTCTTCGGTTTCTGAGCATA
ATGCTCCCATCTCCTGATTTCTCTGAACAGAAAACAAAAGAGAGAATGAGGGAAATTGCT
ATTTTATTTGTATTATGAACCTGGCTGTAATCAGTTATGCCGTATAGGATGTGAGACAA
TACCACTGGTTAAAATAAAGCCTATTTTTCAAATTT

Gene 533. >ENST00000229794 cDNA sequence

GGAACCGCGACCACTGGAGCCTTAGCGGGCGCAGCAGCTGGAACGGGAGTACTGCGACGC
AGCCCGGAGTCGGCCTTGTAGGGGCGAAGGTGCAGGGAGATCGCGGCGGGCGAGTCTTG
AGCGCCGGAGCGCGTCCCTGCCCTTAGCGGGGCTTGCCCCAGTCGAGGGGCACATCCAG
CCGCTGCGGCTGACAGCAGCCGCGCGCGCGGGAGTCTGCGGGGTCGCGGCAGCCGCACCT
GCGCGGGCGACACAGCGCAAGGTCCCCGCCCGGCTGGGCGGGCAGCAAGGGCCGGGGAGAG
GGTGCGGGTGCAGGCGGGGGCCCCACAGGGCCACCTTCTTGCCCGCGGCTGCCGCTGGA
AAATGTCTCAGGAGAGGCCCAAGTCTACCGGCAGGAGCTGAACAAGACAATCTGGGAGG
TGCCCGAGCGTTACAGAACCTGTCTCCAGTGGGCTCTGGCGCTATGGCTCTGTGTGTG
CTGCTTTTGACACAAAACGGGGTTACGTGTGGCAGTGAAGAAGCTCTCCAGACCATTTC
AGTCCATCATTATGCGAAAAGAACCTACAGAGAACTGCGGTTACTTAAACATATGAAAC
ATGAAAATGTGATTGGTCTGTGTGGACGTTTTTACACCTGCAAGGTCTCTGGAGGAATTCA
ATGATGTGTATCTGGTGACCATCTCATGGGGGCAGATCTGAAACAACATTGTGAAATGTC
AGAAGCTTACAGATGACCATGTTTCAGTTCCTTATCTACCAAATTCTCCGAGGTCTAAAGT
ATATACATTACAGCTGACATAATTACAGGGACCTAAAACCTAGTAATCTAGCTGTGAATG
AAGACTGTGAGCTGAAGATTCTGGATTTTGGACTGGCTCGGCACACAGATGATGAAATGA
CAGGCTACGTGGCCACTAGGTGGTACAGGGCTCCTGAGATCATGCTGAACTGGATGCATT
ACAACCAGACAGTTGATATTTGGTCAGTGGGATGCATAATGGCCGAGCTGTTGACTGGAA
GAACATTGTTTCTGGTACAGACCATATTGATCAGTTGAAGCTCATTTTAAGACTCGTTG
GAACCCCGGGGCTGAGCTTTTGAAGAAAATCTCCTCAGAGTCTCTGTGACTTGCTGGA
GAAGATGCTTGTATTGGACTCAGATAAGAGAATTACAGCGGCCCAAGCCCTTGCAATGC
CTACTTTGCTCAGTACCACGATCCTGATGATGAACCAAGTGGCCGATCCTTATGATCAGTC
CTTTGAAAGCAGGGACCTCCTTATAGATGAGTGGAAAAGCCTGACCTATGATGAAGTCAT
CAGCTTTGTGCCACCACCCCTTGACCAAGAAGAGATGGAGTCTGAGCACCTGGTTTCTG
TTCTGTTGATCCCACTTCACTGTGAGGGGAAGGCCTTTTCACGGGAACCTCTCCAAATATT
ATTCAAGTGCCTCTTGTGTCAGAGATTTCTCCATGGTGGAAAGGGGGTGTGCGTGCCTGT
GCGTGCGTGTAGTGTGTGTGCATGTGTGTGTCTGTCTTTGTGGGAGGGTAAGACAATAT
GAACAACTATGATCACAGTGACTTTACAGGAGGTTGTGGATGCTCCAGGGCAGCCTCCA
CCTTGCTCTTCTTTCTGAGAGTTGGCTCAGGCAGACAAGAGCTGCTGTCCTTTTAGGAAT
ATGTTCAATGCAAAGTAAAAAATATGAATTGTCCCAATCCCGGTATGCTTTTGCCAC
TTTGGCTTCTCCTGTGACCCACCTTGACGGTGGGGCGTAGACTTGACAACATCCACAG
TGGCACGGAGAGAAGGCCCATACCTTCTGGTTGCTTCAGACCTGACACCGTCCCTCAGTG
ATACGTACAGCCAAAAGGACCAACTGGCTTCTGTGCACTAGCCTGTGATTAACTTGCTT
AGTATGGTTCTCAGATCTTGA CAGTATATTTGAACTGTAAATATGTTTGTGCCTTAAAA
GGAGAGAAGAAAGTGTAGATAGTTAAAGACTGCAGCTGCTGAAGTTCTGAGCCGGGCAA
GTCGAGAGGGCTGTTGGACAGCTGCTTGTGGGCCCCGAGTAATCAGGCAGCCTTCATAGG
CGGTATGTGTGCATGTGAGCACATGCGTATATGTGCGTCTCTCTTTCTCCCTCACCCCC
AGGTGTTGCCATTTCTCTGCTTACCTTTCACCTTTGGTGCAGAGGTTTCTTGAATATCTG
CCCCAGTAGTCAGAAGCAGGTTCTTGATGTGATGTAATCTTCTGTGTAATCTTTATTTCTA
GCAGAGTGAGGATGTGTTTTGCAAGTCTTGCTATTTGAGCATGCACAGCTGCTTGTCTGT
CTCTCTTCAGGAGGCCCTGGTGTGAGGCAGGTTTGCCAGTGAAGACTTCTTGGGTAGTTT
AGATCCCATGTACCTCAGCTGATATTATGGCAAGTGATATCACCTCTCTTCAGCCCCCTA
GTGCTATTCTGTGTTGAACACAATTGATACTTCAGGTGCTTTTGATGTGAAAATCATGAA
AAGAGGAACAGGTGGATGTATAGCATTTTTATTTCATGCCATCTGTTTTCAACCAACTATT
TTTGAGGAATTATCATGGGAAAAGACCAGGGCTTTTCCAGGAATATCCCAAACCTTCGGA
AACAAGTTATTCTCTTCACTCCAATAACTAATGCTAAGAAATGCTGAAAATCAAAGTAA

FIGURE 1 (CONT'D)

AAAATTAAAGCCCATAAAGCCAGAACTCCTTTTGCTGTCTTTCTCTAAATATGATTACT
TTAAATAAAAAAGTAAACAAGGTGTCTTTTCCACTCCTATGGAAAAGGGTCTTCTTGGA
GCTTAACATTGACTTCTTGTTTTGGGAGAAATAAATTTTGTTCAGAAATTTGTATATT
GTAGGAATCCTTTGAGAATGTGATTCTTTTGATGGGAGAAAGGGCAAATTATTTTAAT
ATTTTGTATTTTCAACTTTATAAAGATAAAATATCCTCAGGGGTGGAGAAGTGTCTTTTT
CATAACTTGCTGAATTTTCAAGCATTTTGTCTACATGAGGACTCATATATTTAAGCCTTT
TGTGTAATAAGAAAGTATAAAGTCACTTCCAGTGTGGCTGTGTGACAGAATCTTGTATT
TGGGCCAAGGTGTTTTCCATTTCTCAATCAGTGCAGTGATACATGTACTCCAGAGGGACAG
GGTGGACCCCCCTGAGTCAACTGGAGCAAGAAGGAAGGAGGCAGACTGATGGCGATTCCCT
CTCACCCGGGACTCTCCCCCTTTCAAGGAAAGTGAACCTTTAAAGTAAAGGCCTCATCTC
CTTTATTGCACTTCAAATCCTCACCATCCACAGCAAGATGAATTTTATCAGCCATGTTTG
GTTGTAAATGCTCGTGTGATTTCTACAGAAATACTGCTCTGAATATTTTGTAAATAAAGG
TCTTTCACATGTGACCACATACGTGTTAGGAGGCTGCATGCTCTGGAAGCCTGGACTCT
AAGCTGGAGCTCTTGAAGAGCTCTTCGTTTTCTGAGCATAATGCTCCCATCTCCTGATT
TCTCTGAACAGAAAAACAAAGAGAGAATGAGGGAAATTGCTATTTTATTTGTATTATGA
ACTTGGCTGTAATCAGTTATGCCGTATAGGATGTGAGACAATACCACTGGTTAAATAAA
GCCTATTTTTTCAAATTT

Gene 534. >ENST00000326284 cDNA sequence

AGGGCCAAGGAGCGGCCCCCGCGCGCGCGGCCCCGAGCACCTCTCCGTCCCCGGGCGCG
CACGGCCGGCGCGGCGGCCCCAGAAGGGAAGAGCTCGTCGCGCAGCCCCGGCCCCGACCCC
CGCTCCTGGAGCTCCAGCCGCTCGCCCTCCAAATCTCGCTCGCGCTCTGCGGAGAAGCGG
CCCCACAGCCCCAGCCGCTCGCCGTCGCCCCAAGAAGCCCCCTCAGCCGGGACAAGGACGGC
GAGGGCCGCGCAAGGCACTCTGAGGCCGAGGCCACCCGCGCCGGCGCCGCTCCCGCAGC
TACTCGCCCATCCGCAAGCGGCGCCGGGACTCGCCAAGCTTCATGGAGCCGCGGCGCATC
ACCAGCGCCGCAAGCGTCCTATTCCATACTACCGGCCAGCCCCCTCTTCCTCCTCCAGCT
GCTTGAGCAGCGACTACTCGACCCGGAGCCACAGCCGAGCCCCAGCCCCGGCCACAGCC
ACGGGAGCTACAGCAGTGCAGCCATGGGACCCGAGCCGGACACGCAGCCCCCTCGAGGA
CCCCCAGTCCCAGCTACACAGCCGGAGCAGCTCTGAGAGCGGGGGCTTCTGAGCCCAGA
CAGACTCAGCTTGGTGCCCCCTGGCACTGGGAGAGGCGAGGGGCGGGCCCCAGGACCCC
AGTGGGGAGGGGGCTATATCTCCTTGCCCCCAAGGCTACAAAGAGGTCTCAGGGCCAGTG
CACGGGCAGATGGGACCGGGGAAGACTTTGAGGGTGGGCATCCAGTGGACAAGGAGAAGC
CAGATGTGCTGCTTCTACGGGTGTCTCTCCACCTCCTGTCCACCCACTGTGCCCGGGG
AACAAAGAGCCGTTACGAACAACAGGAATCTCCCCATCCCCCTTCTCTGCTGATGCCAACTC
ACCAGGCTTGGGACTGCTGCCGGTGGATGGTACCAGAGTCCATGATCTGCTCTGTCACTT
CACCTTAGCTCAGTGCAGCCAGGGACACCTTGCAAGGTGCCAGCCCTGGGAGCCCCCTCTT
CCGCACTACACAGCTCCCTCCACTCCTCTCTTATCACTGGGCAGACGAGGAGGTGGTACA
GCACATGGGTTTTGGAGCTAGACAGAAGGAAGAACAGCCTAACCCCTTGGTGACCCCCATC
CAAGCTGGGGAGCTGCATCCTTTTGAGCTGGCTGCAGGAGGACCCCTGGCTGAGGGCTGGT
GGCTGGCCCCACAGCCTCCCCCAAGCTCCTCCACTGACCCAGGAGTGCCAGACGGGTGG
CCCCCAAATCCCAGCCTGGGGAGCTAGGCACCTCACTCTTGGTCTGACCTCTCCAGGCC
AGGCTCTCCTCACCCCATGCCCTGGGCCAAGGTCTTACCAGCCATGACTACTGCATGACA
AGAGGTGGGGGTACAGACCTCAGGTACATTTGACCCCTGAGGTAAAAGGGGTTCAGGT
AAGAGGTGGGAGAGGAAAGGGGTAGATGGGAGGTGGAATCTGTAGGAAAGAGAAAAGCA
AAGTCGTTCACTGACTGAGTAGCCCCCAGGGAGTGGAGACGGGTCCCTGGGGAGGGAGCA
GCTGACAGGTGAGCAGTGCCCCAGCCCCACCCAAGAGGAGGGCAGCGTGTGCCTGTGGT
CTGGGACGTGGGCTGGATGGCAGCCAGGGTCACAGGCATAGGATAACATGTGCTTTTGA
CCTGACAAGGGAGTACCTTGGGGGTCTGATGGGGTCATGGCCAGCCGAGCCTCTGTAGAG
ATGGAGGTACAGCCCTCAGAAGGGAGGGGAGGAAAGAGACTGAGGGCCCTGGCCTGGGG
CGTCGATGGGGAAGCGGTGGCCCCCAGTCCTCTTCTGCTGCTCCAGCCCCCTCCTCCTG
GGGCCCTCAGGGATCTCATGAAGTCTTCTTGGCCCCAACAGGCAGATGCCCGGGCTCC
AGTGGGGGGAGGGGTCTGGGGTCTGGTCCGGGTTCGCCGCTTTCTCTATGTCCCCCTCC
CTCTTTCTCCGAGTGCAGATAAAATTGGACTCGAATAAAACCCCTTGGTGCCCCG

Gene 535. >ENST00000332057 cDNA sequence

GCGGCTCCATGCGTGAGGCTGGTGCCACGCGGTCTCCCGGTGTTGGCATTGTCTCAGGCC

FIGURE 1 (CONT'D)

TTCTCCTCAGTTCTGCACACAGCTACAAAACAAAAGAACAGTTGCCAGCACTTGGAAGAG
GATGTGCAAAACCAATGGAGGACAGATACTCCCTCTATGGACAAGATACTCATGGAAGAA
GTCAAGTTAGAAGAGCAGCTGAAGGAGGCTGTGGAAGAAGATAAGCAAGCACTGGCAGAT
ACTGAGGGCTCAGAGCAGAGCAGCCAAAAATTGGTGGAGGAGGGAAATATGTATAGCATT
CAGGGCTTCTGCAAGGACTCGTTAGAGGTTGCAGATGTTTTGGAGAAGGCAACACAGTGT
GTTCCAGAAGAAGAAATTAAAGACAATAACCTCACCTGAAGAACCTCTCTAGACTCACA
ATGAGTGAAGTCCAGATTAGGAAGTGTTCAGCAAGCACTGCCAAGATGAACTCTGTCAC
AGCAAGTTCCACCCTTATGAGCGTGAGGGTCTTTTT

Gene 536. >ENST00000326382 cDNA sequence

GATGTCTCCACCGTGAACAACGGGGCGGCCAGCATGCAGTCCACACCCGACGCCGCGAA
CGGCTTCCCGCAGCCCAGCTCCTCCTCGGGGACCTGGCCGCGGGCGGAAGAGGAGCTGCG
CGCCGCGGAGCCGGGCCTGGTGAAGCGCGCGCACCGCGAGATCCTGGACCAAGAGCGCAA
GCGGCGGGTGGAGCTCAAGTGCATGGAGCTGCAGGAGATGATGTATTGAGGAGGAGAT
TCGGCAGAAAGTGGGGACATTCCGGCAGATGCTGATGGAGAAGGAGGGAGTGCTCACCAG
GGAGGACCGGCCTGGGGGCCACATTGTGGCGGAGACCCCGCGGCTGACCGAGGGCGCTGA
GCCGGGCCTGGAGTACGCGCCCTTTGACGATGACGACGGCCAGTGGA CTGTGACTGCC
GGCCTCCTGCTACCGCGGCCACCGCGGGTACAGGACCAAGCATTGGTCTAGCAGCTCGGC
ATCGCCCCCTCCCAAGAAAAAGAAAAAGAAAGGCGGCCACCGAGAAGCCGCAAAAA
GAGGAGACTGGAGTCCGAATGCAGCTGTGGGAGCTCCTCACCCCTCCGCAAGAAGAAGAA
GAGTGTGAAGAAGCATCGCCGAGACAGGTCTGATTCTGGGTCCCGAGGAAGAGACGGCA
CAGATCTCGAAGCTCCAAGTGCAAAAGAAAAAGAGAAGAACAAAGAGAAGAAGAGGCCTCA
CACAGAGTCCCCAGGCCGGAGGTCTCATCGCCATAGCAGTGGCAGCTCCACAGCCCCTC
CCTCTCCTCCCACTACAGTGATTCCAGATCTCCAGCAGGCTGAGCCCCAAGCACCGAGA
CGAAGGGCGAAAGACGGGCAGCCAGCGGTCCAGCGGAAGCCGGTGCCTTCCCCGTCGGG
CGGCAGCGGATGGGGGTGCCCCAGCGGAACGGCGGCAGCGGGCAGCGGAGCGGAGCGCA
CGGGGGCCGCCCGGCTCGGCGCACAGCCCCCGCCGATAAGCCAGCTCGCCCTCGCCAG
GGTCCGTGACAAGGCGGCGGCCG

Gene 537. >ENST00000314526 cDNA sequence

ATGCTTGCCCCCTGCTCAGGTTGGGAGCTTGGCTGCTTCCGTCTCTGTCTCCGTGAGGTC
CGACTGTGGGCTGGCGCTGGGCGCTGGGCTTGGTGGGCTTGCCAAGCCAGGCCGTACAGC
TCAGGTGGGAGCGAGCGCTGGCCCGGATCGGAGACTGAGGTCCCTCCGCTGGCCCGGCG
CGCCGAACCTCTGAAGGAGTGGACACTGCAGGTGAGCCCGTTTGGTGGCTGCGGGCGCGG
CTCCCGTGCCACCTGGCCGTGAGGCCCTGGAACCCCTCACCTACCCGATGGCGACCGC
GTGCTGGTTCGCGGTGTGCGGCGTGGAGGGCGGCGTGGGGGCTGGAAGGCCTGCAGGTG
AAGTACGACGAGGATCTGGAGGAGATGGCCATTGTGTCTGATACTATCCACCCCGAGGCG
TCCGTGGAGGTG

Gene 538. >ENST00000335370 cDNA sequence

CTGCCTCGTGTGTCTGTTGGCACACTCTCAAGAGTTTGAACGGATACAAGAATCTTTCA
TCTGGTGCCGAAACCCGGGAGGGGCTCCGGTCTTCGTCCCCCGTGGACCTACCCCTCCGC
CCCAGAAAGCAGGCCACAGCAGCCGGACAAAGGAAGCTCCTCAGCCTCCAGTTGCTTCTC
TGTGCATGCACATCAGTCACTGATCTCACCTACTGGGGCCCTGCAGGCCATGGGGCCACA
GCTCCACACAGAAGCCTCCTAGCAATCCACCTCCACCTGGTGCTTCAAGTGCGGCA
ATGAAGGCCACTGGCCACACAATGCCCAAACCCAGGTAAACCCACGAGGCCATGCCCCC
TCTGCGGAGGACCCCACTGGAAGTTGGAAGTGTGAGCGGCCCCCTGCAAGGACCAACCCCAT
CCCTTCTGAGCCAATCAAAACCTCCTACTCGGATCTCGTCAGCCTTGCCGCTGAAGACT
GATAGTGCCTTGGAACAGACACCCAGCAACTACCATCGCTTCATCTGAGCCAAGGGTAA

Gene 539. >ENST00000289473 cDNA sequence

AAGCGACTTCCTCTTTCCAGTGCATTTAAGGCGCAGCCTGGAAGTGCCAGGGAGCACTGG
AGGCCACCCAGTCATGGGGGACACCTTCATCCGTACATCGCCCTGCTGGGCTTTGAGAA
GCGCTTCGTACCCAGCCAGCACTATGTGTACATGTTCTGGTGAAATGGCAGGACCTGTC
GGAGAAGGTGGTCTACCGGCGCTTCACCGAGATCTACGAGTTCCATAAAACCTTAAAGA
AATGTTCCCTATTGAGGCAGGGGCGATCAATCCAGAGAACAGGATCATCCCCACCTCCC
AGCTCCCAAGTGGTTTTGACGGGCAGCGGGCCGCGGAGAACCGCCAGGGCACACTTACCGA
GTACTGCGGCAGCTCATGAGCCTGCCACCAAGATCTCCCGCTGTCCCCACCTCCTCGA

FIGURE 1 (CONT'D)

CTTCTTCAAGGTGCGCCCTGATGACCTCAAGCTCCCCACGGACAA CCAGACAAAAAAGCC
 AGAGACATACTTGATGCCCAAAGATGGCAAGAGTACCGCGACAGACATCACCGGCCCCAT
 CATCCTGCAGACGTACCGCGCCATTGCCAACTACGAGAAGACCTCGGGCTCCGAGATGGC
 TCTGTCCACGGGGGACGTGGTGGAGGTCTGTAGAGAAGAGCGAGAGCGGTTGGTGGTTCTG
 TCAGATGAAAGCAAAGCGAGGCTGGATCCCAGCGTCCTTCCTCGAGCCCCTGGACAGTCC
 TGACGAGACGGAAGACCCTGAGCCCAACTATGCAGGTGAGCCATACGTGCGCATCAAGGC
 CTACACTGCTGTGGAGGGGGACGAGGTGTCCCTGCTCGAGGGTGAAGCTGTTGAGGTCAT
 TCACAAGCTCCTGGACGGCTGGTGGGTTCATCAGGAAAGACGACGTACAGGCTACTTCCC
 GTCCATGTACCTGCAAAAGTCAGGGCAAGACGTGTCCAGGCCCAACGCCAGATCAAGCG
 GGGGGCGCCGCCCGCAGGTCTCCATCCGCAACGCGCACAGCATCCACCAGCGGTGCGG
 GAAGCGCTCAGCCAGGACGCTATCGCCGCAACAGCGTCCGTTTTCTGCAGCAGCGACG
 CCGCCAGGCGCGGCCGGGACCGCAGAGCCCCGGGAGCCCGCTCGAGGAGGAGCGGCAGAC
 GCAGCGCTCTAAACCGCAGCCGGCGGTGCCCCCGCGGCCGAGCGCCGACCTCATCCTGAA
 CCGCTGCAGCGAGAGCACCAAGCGGAAGCTGGCGTCTGCCGTCTGAGGCTGGAGCGCAGT
 CCCAGCTAGCGTCTCGGCCCTTGCCGCCCCGTGCTGTACATACGTGTTCTATAGAGCC
 TGGCGTCTGGACGCCGAGGGCAGCCCCGACCCCTGTCCAGCGCGGTCCCGCCACCCTCA
 ATAAATGTTGCTTGGAGTG

Gene 540. >ENST00000324896 cDNA sequence

AGGAGGAGGAGGGTGAGAGAGAAGCTGGGAGAGCAGAGAAAAGGGGGCCACCGGTGCCCC
 CCCGCTTCCCCGCACGCGCTCTCCAGCCGCGGCCGCCGCTGCCGCGGTCACCCCGGCC
 TCTGCCTCTGTCCCCAGTGATCGGATCAAGGCGCTGAGCGAGGCCCTGCCTGCGGGGCG
 GCCATGCGGCGGTGACAGGAGCGCGACCGACACGCACGGGCCCCCTCGCCCCCTCTGCCT
 CCCGTCCGCTCGCCAGCTCCCTCAGCCGAGGCTGCTCCGCGCGGCCGAGCCCGCGCG
 CGGCCCACTCTGCCTCCCTCGGCACCCCCGGCCCCGAGCTGCCTGGAGGCGGCCGCA
 CTCGGGGATCATGGCCCAAGTTGCAATGTCCACCCTCCCCGTTGAAGATGAGGAGTCCTC
 GGAGAGCAGGATGGTGGTGACATTCTCATGTGAGCTCTCGAGTCCATGTGTAAAGAACT
 GGCCAAGTCCAAAGCCGAAGTGGCCTGCATTGCAGTGTATGAAAACAGACGTGTTTGTGCT
 CGGAAGTCAAAGAGGACGTGCTTTTGTCAATACCAGAAAGGATTTTTCAAAAAGATTTTGT
 AAAATATTGTGTTGAAGAAGAAGAAAAAGCTGCAGAGATGCATAAAATGAAATCTACAAC
 CCAGGCAAATCGGATGAGTGTAGATGCTGTAGAAATTGAAACACTCAGAAAAACAGTTGA
 GGACTATTTCTGCTTTTGTATGGGAAAGCTTTAGGCAAATCCACAGTGGTACCTGTACC
 ATATGAGAAGATGCTGCGAGACCAGTCGGCTGTGGTAGTGAGGGGCTTCCGGAAGGTGT
 TGCCTTTAAACACCCCGAGAAGTATGATCTTGCAACCCTGAAATGGATTTTGGAGAACAA
 AGCAGGGATTTTCATTCATCATTAAAGAGACCTTTTTTAGAGCCAAAGAAGCATGTAGGTGG
 TCGTGTGATGGTAACAGATGCTGACAGGTCAATACTATCTCCAGGTGGAAGTTGTGGCCC
 CATCAAAGTGAAAACCTGAACCCACAGAAGATTCTGGCATTTCCTTGAAATGGCAGCTGT
 GACAGTAAAGGAAGAATCAGAAGATCCTGATTATTATCAATATAACATTCAAGCAGGCCC
 TTCTGAAACTGATGATGTTGATGAAAAACAGCCCCTATCGAAGCCTTTGCAAGGAAGCCA
 CCATTCTTCAGAGGGCAATGAAGGCACAGAAATGGAAGTACCAGCAGAAGATTCTACTCA
 ACATGTCCCTTCAGAAACAAGTGAGGACCCCTGAAGTTGAGGTGACTATTGAAGATGATGA
 TTATTCTCCACCGTCTAAGAGACCAAAGGCCAATGAGCTACCGCAGCCACCAGTCCCGGA
 ACCCGCCAATGCTGGGAAGCGGAAAGTGAGGGAGTTCAACTTCGAGAAATGGAATGCTCG
 CATCACTGATCTACGTAAACAAGTTGAAGAATTGTTTGAAAGGAAATATGCTCAAGCCAT
 AAAAGCCAAAGGTCCGGTGACGATCCCGTACCCTCTTTTCCAGTCTCATGTTGAAGATCT
 TTATGTAGAAGGACTTCCTGAAGGAATTCCTTTTAGAAGGCCATCTACTTACGGAATTCC
 TCGCCTGGAGAGGATATTACTTGCAAAGGAAAGGATTGTTTTGTGATTAAAGAAACATGA
 GCTTCTGAATTCAACACGTGAAGATTTACAGCTTGATAAGCCAGCTTCAGGAGTAAAGGA
 AGAATGGTATGCCAGAATCACTAAATTAAGAAAGATGGTGGATCAGCTTTTCTGCAAAAA
 ATTTGCGGAAGCCTTGGGGAGCACTGAAGCCAAGGCTGTACCGTACCAAAAATTTGAGGC
 ACACCCGAATGATCTGTACGTGGAAGGACTGCCAGAAAACATTCTTTCCGAAGTCCCTC
 ATGGTATGGAATCCCAAGGCTGGAAAAAATCATTCAAGTGGGCAATCGAATTAAATTTGT
 TATTAAAGACCAGAATTTCTGACTCACAGTACCACTGAAGTTACTCAGCCAAGAACGAA
 TACACAGTCAAAGAAGATTGGAATGTGAGAATTACCAAGCTACGGAAGCAAGTGGAAGA
 GATTTTTAATTTGAAATTTGCTCAAGCTCTTGACTCACCGAGGCAGTAAAGTACCATA

FIGURE 1 (CONT'D)

TCCTGTGTTTGAATCAAACCCGGAGTTCTTGATGTGGAAGGCTTGCCAGAGGGGATTCC
 CTTCCGAAGCCCTACCTGGTTTGAATTCCACGACTTGAAAGGATCGTCCGCGGGAGTAA
 TAAAATCAAGTTCGTTGTTAAAAAACCTGAACTAGTTATTTCTACTTGCTCCTGGGAT
 GGCTAGTAAAATAAACTAAAGCTTTGCAGTCCCCAAAAGACCACGAAGTCCTGGGAG
 TAATTCAAAGGTTCTGAAATTGAGGTACCGTGGAAGGCCCTAATAACAACAATCCTCA
 AACCTCAGCTGTTGCAACCCCGACCCAGACTAACGGTTCTAACGTTCCCTTCAAGCCACG
 AGGGAGAGAGTTTTCTTTGAGGCCTGGAATGCCAAAATCACGGACCTAAAACAGAAAGT
 TGAAAATCTCTTCAATGAGAAATGTGGGGAAGCTCTTGGCCTTAAACAAGCTGTGAAGGT
 GCCGTTTCGCGTTATTTGAGTCTTTCCCGGAAGACTTTTATGTGGAAGGCTTACCTGAGGG
 TGTGCCATTCCGAAGACCATCGACTTTTGGCATTCCGAGGCTGGAGAAGATACTCAGAAA
 CAAAGCCAAAATTAAGTTCATCATTAAAAAGCCCCGAAATGTTTGAGACGGCGATTAAGGA
 GAGCACCTCCTCTAAGAGCCCTCCAGAAAAATAAATTATCACCCTAATGTTAATACTAC
 TGCATCAGGTGTTGAAGACCTTAACATCATTAGGTGACAATTCCAGATGATGATAATGA
 AAGACTCTCGAAAGTTGAAAAAGCTAGACAGCTAAGAGAACAAGTGAATGACCTCTTTAG
 TCGGAAATTTGGTGAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCCTACAGGAAAAT
 CACAATTAACCTGGCTGTGTGGTGGTTGATGGCATGCCCCGGGGGTGTCTTCAAAGC
 CCCAGCTACCTGGAAATCAGCTCCATGAGAAGGATCTTAGACTCTGCCGAGTTTATCAA
 ATTACGGTCAATTAGACCATTTCCAGGACTTGTGATTAATAACCAGCTGGTTGATCAGAG
 TGAGTCAGAAGGCCCCGTGATACAAGAATCAGCTGAACCAAGCCAGTTGGAAGTTCAGC
 CACAGAAGAAATAAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAACCAGACCCAC
 GTGGTAGACCTCTTCCCTCCTAGGCTTAAAGTATCAGTGGTTGAGAAGAGCTTTTCGGAC
 CTGTTACTACCCCAAGCTGTGTAATATACTTGTATAACAGAAATACCTTCTATACAAACC
 TTTTTTTCTACTTTTAGATAGAAATGTCTACTTTTTTCAGCAGTTCTGTGAATTAAAGAGC
 AGAGTGACTGTGGGTCTGGAATGGCTGGTGTACTTGGGAATGTACTATCAGGATTTTACA
 GCAATGCTGGGAAATGACAGGGAAATGACAGGAATGAATCTCACCAGATTTTTTATGTA
 CTCAGCAGAGCCTTGAGTTACGGTGTATTATTTTCAATCAAGTGAAGATATCTCCTACTT
 CTCCTACTGGAACATCTCAGCTTCTGCAGTGAAGAAAAATTCCTGTGATAGTTTCACTTCT
 TTAGTTTTTCTATTTGAAAAAATAATCATTTAAATGATCTTTGTTTACGGCTCTCCT
 TAATGACTGAGTGAACAGTTCCTATCTGTATATTTGACTAAACCTTTTCTAAGCTATCT
 CTCATGGTTTCTATGTTTTTTTATCATAATTAAGCAAAACCATCTGGATCACCTAACA
 GTCAGAGGTGAGTATCTCAGCGTGTGAATTATAGAGGAAATACAGAGAGAACCTCTTCCA
 CTTTTACTTTTCGTCCAAATAAAATGCATGGTGTACCAGAAGTTGAAGATCGGGTTGAGG
 ATTGGGGCTAGCTCGATGACACTAAGGCCCAACATCGCGGGACCTGCTGTGGCGCGGAT
 TCTTAGGAACGCTGTTCTAGCCGGCCCCCTCTCCAGGGGTGCGCGTGGCCGGCATTATTT
 CCTAGTTCTTCTTGTAAACCTGAGGTGCCAGCGCGGGGAGTGAGGAGGGGTGAGGGGGCT
 AAGGATGCAACCTCTGACGTTCTGCGCCTTCTAGGAGAGTCTTACATGTGTTGAGATTT
 CACAAGCAATGCGAGTTGTAAAATACCAGCTCTACAAGAAGCTAGGCTCTGTGACGGCAT
 AGTTTTTCAGTAGCTTTATCAATATTTCAATGGAGAATTATATGACATGGTAGCAGAA
 ATAGGCCCTTTTATGTGTTGCTTCTATTTTACCTCAAATTGTAGATATAGGGTAATCAAT
 AAAATCCATCCATGCCTTTTACACACTAA

Gene 541. >ENST00000324924 cDNA sequence

AGGAGGAGGAGGGTGAGAGAGAAGCTGGGAGAGCAGAGAAAAGGGGCCACCGGTGCCCC
 CCCGCTTCCCCGCACGCGCTCTCCAGCCGCGGCCCGCCCTGCCGCGGTCAACCCGGCC
 TCTGCCTCTGTCCCCAGTGATCGGATCAAGGCGCTGAGCGAGGCCCTGCCTGCGGGGCG
 GCCATGCGGCGGTGACAGGAGCGCGACCGACACGACGGGCCCCCTCGCCCCCTCTCGCCT
 CCCGTCCGCTCGCCAGCTCCCCCTCAGCCGAGGCTGCTCCGCGGCGGCCGAGCCGCGCG
 CGGCCCACTCGCCTCCCTCGGCACCCCCCGGCCCGGAGCTGCCTGGAGGCGGCCGCA
 CTCGGGGATCATGGCCCAAGTTGCAATGTCCACCCTCCCCGTTGAAGATGAGGAGTCTC
 GGAGAGCAGGATGGTGGTGACATTCTCATGTGAGTCTCGAGTCCATGTGTAAAGAACT
 GGCCAAGTCCAAAGCCGAAGTGGCCTGCATTGCAGTGTATGAAACAGACGTGTTTGTGCT
 CGGAAGTGAAGAGGACGTGCTTTTGTCAATACCAGAAAGGATTTTCAAAAAGATTTTGT
 AAAATATTGTGTTGAAGAAGAAGAAAAAGCTGCAGAGATGCATAAAATGAAATCTACAAC
 CCAGGCAAATCGGATGAGTGTAGATGCTGTAGAAATTGAAACACTCAGAAAAACAGTTGA
 GGACTATTTCTGCTTTTGTATGGGAAAGCTTTAGGCAAATCCACAGTGGTACCTGTACC

FIGURE 1 (CONT'D)

ATATGAGAAGATGCTGCGAGACCAGTCCGGCTGTGGTAGTGCAGGGGCTTCCGGAAGGTGT
 TGCCTTTAAACACCCCGAGAACTATGATCTTGCAACCCTGAAATGGATTTTGGAGAACAA
 AGCAGGGATTTTCATTTCATTAAAGAGACCTTTTTTAGAGCCAAAGAAGCATGTAGGTGG
 TCGTGTGATGGTAACAGATGCTGACAGGTCAATACTATCTCCAGGTGGAAGTTGTGGCCC
 CATCAAAGTGAAAACCTGAACCCACAGAAGATTCTGGCATTTCCTGGAAATGGCAGCTGT
 GACAGTAAAGGAAGAATCAGAAGATCCTGATTATTATCAATATAACATTCAAGGAAGCCA
 CCATTCTTCAGAGGGCAATGAAGGCACAGAAATGGAAGTACCAGCAGAAGATTCTACTCA
 ACATGTCCCTTCAGAAAACAGTGAGGACCCTGAAGTTGAGGTGACTATTGAAGATGATGA
 TTATTCTCCACCGTCTAAGAGACCAAAGGCCAATGAGCTACCGCAGCCACCAGTCCCGGA
 ACCCGCCAATGCTGGGAAGCGGAAAGTGAGGGAGTTCAACTTCGAGAAATGGAATGCTCG
 CATCACTGATCTACGTAAACAAGTTGAAGAATTGTTTGAAAGGAAATATGCTCAAGCCAT
 AAAAGCCAAAGGTCCGGTGACGATCCCGTACCCTCTTTTCAGTCTCATGTTGAAGATCT
 TTATGTAGAAGGACTTCCTGAAGGAATTCCTTTTAGAAGGCCATCTACTTACGGAATTCC
 TCGCCTGGAGAGGATATTACTTGCAAAGGAAAGGATTGTTTTGTGATTAAGAAACATGA
 GCTTCTGAATTCAACACGTGAAGATTTACAGCTTGATAAGCCAGCTTCAGGAGTAAAGGA
 AGAATGGTATGCCAGAATCACTAAATTAAGAAAGATGGTGGATCAGCTTTTCTGCAAAAA
 ATTTGCGGAAGCCTTGGGGAGCACTGAAGCCAAGGCTGTACCGTACCAAAAATTTGAGGC
 ACACCCGAATGATCTGTACGTGGAAGGACTGCCAGAAAACATTCTTTCCGAAGTCCCTC
 ATGGTATGGAATCCAAGGCTGGA AAAAATCATTCAAGTGGGCAATCGAATTAAATTTGT
 TATTA AAAGACCAGAACTTCTGACTCACAGTACCACTGAAGTTACTCAGCCAAGAACGAA
 TACACCAGTCAAAGAAGATTGGAATGTCAGAATTACCAAGCTACGGAAGCAAGTGAAGA
 GATTTTTTAATTTGAAATTTGCTCAAGCTCTTGACTCACCGAGGCAGTAAAGTACCATA
 TCCTGTGTTTTGAATCAAACCCGGAGTTCTTGATGTGGAAGGCTTGCCAGAGGGGATTCC
 CTTCCGAAGCCCTACCTGGTTTTGGAATTCACGACTTGAAAGGATCGTCCGCGGGAGTAA
 TAAAATCAAGTTCTGTTGTTAAAAAACCTGAAGTAGTTATTTCTACTTGCCTCCTGGGAT
 GGCTAGTAAATAAACTAAAGCTTTGCAGTCCCCCAAAGACCACGAAGTCTTGGGAG
 TAATTCAAAGTTCTGAAATTTGAGGTACCGTGGAAGGCCCTAATAACAACAATCCTCA
 AACCTCAGCTGTTTGAACCCGACCCAGACTAACGGTTCTAACGTTCCCTTCAAGCCACG
 AGGGAGAGAGTTTTCTTTGAGGCCTGGAATGCCAAAATCACGGACCTAAACAGAAAGT
 TGAAATCTCTTCAATGAGAAATGTGGGGAAGCTCTTGCCCTTAAACAAGCTGTGAAGGT
 GCCGTTTCGCGTTATTTGAGTCTTTCCCGAAGACTTTTATGTGGAAGGCTTACCTGAGGG
 TGTGCCATTCCGAAGACCATCGACTTTTGGCATTCCGAGGCTGGAGAAGATACTCAGAAA
 CAAAGCCAAAATTAAGTTTCATCATTAAAAAGCCGAAATGTTTGAGACGGCGATTAAAGGA
 GAGCACCTCCTCTAAGAGCCCTCCCAGAAAAATAAATTCATCACCCAATGTTAATACTAC
 TGCATCAGGTGTTGAAGACCTTAACATCATTAGGTGACAATTCAGATGATGATAATGA
 AAGACTCTCGAAAGTTGAAAAAGCTAGACAGCTAAGAGAACAAGTGAATGACCTCTTTAG
 TCGGAAATTTGGTGAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCCTACAGGAAAT
 CACAATTAACCTGGCTGTGTGGTGGTTGATGGCATGCCCCGGGGGTGTCCTTCAAAGC
 CCCCAGCTACCTGGAAATCAGCTCCATGAGAAGGATCTTAGACTCTGCCGAGTTTATCAA
 ATTCACGGTCATTAGACCATTTCCAGGACTTGTGATTAATAACCAGCTGGTTGATCAGAG
 TGAGTCAGAAGGCCCGTGATACAAGAATCAGCTGAACCAAGCCAGTTGGAAGTTCCAGC
 CACAGAAGAAATAAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAACCAGACCCAC
 GTGGTAGACCTCTTCCCTCCTAGGCTTAAAGTATCAGTGGTTGAGAAGAGCTTTTTCGGAC
 CTGTTACTACCCCAAGCTGTGTAATATACTTGTATAACAGAAATACCTTCTATACAAACC
 TTTTTTTCTACTTTTAGATAGAAATGTCTACTTTTTTCAGCAGTTCTGTGAATTAAAGAGC
 AGAGTGAAGTGTGGGTCTGGAATGGCTGGTGTACTTGGGAATGTACTATCAGGATTTTACA
 GCAATGCTGGGAAATGACAGGGGAAATGACAGGAATGAATCTCAACAGATTTTTTATGTA
 CTCAGCAGAGCCTTGAGTTACGGTGTGTTTTATTTTCCAATCAAGTGAAGATATCTCCTACTT
 CTCCTACTGGAACATCTCAGCTTCTGCAGTGAAGAAAAATTCCTGTGATAGTTTCAAGTTCT
 TTAGTTTTTTCTATTTGAAAAAATAAATCATTAAATGATCCTTTGTTTACGGCTCTCCT
 TAATGACTGAGTGAACAGTTCTCTATCTGTATATTTGACTAAACCTTTTTCTAAGCTATCT
 CTCATGGTTCTATGTTTTTTTTATCATAATTAAGCAAAACCATCTGGATCACCTAACA
 GTCAGAGGTGAGTATCTCAGCGTGTGAATTATAGAGGAAATACAGAGAGAACCTCTTCCA
 CTTTTACTTTTCGTCCAAATAAAATGCATGGTGTACCAGAAGTTGAAGATCGGGTTGAGG

FIGURE 1 (CONT'D)

ATTGGGGCTAGCTCGATGACACTAAGGCCCCAACATCGCGGGACCTGCTGTGGCGCGGAT
TCTTAGGAACGCTGTTCTAGCCGGCCCCCTCTCCAGGGGTCGCCGTGGCCGGCATTATTT
CCTAGTTCTTCTTGTAACCTGAGGTGCCAGCGCGGGGAGTGAGGAGGGGTGAGGGGGCT
AAGGATGCAACCTCTGACGTTCTGCGCCTTCTAGGAGAGTCTTACATGTGTTGAGATTT
CACAAGCAATGCGAGTTGTAAAATACCAGCTCTACAAGAAGCTAGGCTCTGTGACGGCAT
AGTTTTTCAGTAGCTTTATCACAATATTCACAATGGAGAATTATATGACATGGTAGCAGAA
ATAGGCCCTTTTATGTGTTGCTTCTATTTTACCTCAAATTGTAGATATAGGGTAATCAAT
AAAATCCATCCATGCCTTTTACACACTAA

Gene 542. >ENST00000324906 cDNA sequence

AGGAGGAGGAGGGTGAGAGAGAAGCTGGGAGAGCAGAGAAAAGGGGGCCACCGGTGCCCC
CCCGCTTCCCGCACGCGCTCTCCAGCCGCGGCCCGCCGCTGCGCGGTCACCCCGGCC
TCTGCCTCTGTCCCCAGTGATCGGATCAAGGCGCTGAGCGAGGCCCTGCCTGCGGGGCG
GCCATGCGGCGGTGACAGGAGCGCGACCGACACGACGGGGCCCTCGCCCCCTCTGCCT
CCCGTCCGCTCGCCAGCTCCCCCTCAGCCGAGGCTGCTCCGCGGCGGCCGAGCCCGCGG
CGGCCCACTCGCCTCCCCCTCGGCACCCCCGGCCCCGGAGCTGCCTGGAGGCGGCCGCA
CTCGGGGATCATGGCCCAAGTTGCAATGTCCACCTCCCCGTTGAAGATGAGGAGTCCTC
GGAGAGCAGGATGGTGGTGACATTCCTCATGTGAGCTCTCGAGTCCATGTGTAAAGAACT
GGCCAAGTCCAAAGCCGAAGTGGCCTGCATTGCAGTGTATGAAACAGACGTGTTTGTGCT
CGGAACTGAAAGAGGACGTGCTTTTGTCAATACCAGAAAGGATTTTCAAAAAGATTTTGT
AAAATATTGTGTTGAAGAAGAAGAAAAGCTGCAGAGATGCATAAAATGAAATCTACAAC
CCAGGCAAATCGGATGAGTGTAGATGCTGTAGAAATTGAAACACTCAGAAAAACAGTTGA
GGACTATTTCTGCTTTTGTATGGGAAAGCTTTAGGCAAATCCACAGTGGTACCTGTACC
ATATGAGAAGATGCTGCGAGACCAGTCGGCTGTGGTAGTGAGGGGCTTCCGGAAGGTGT
TGCCTTTAAACACCCCGAGAACTATGATCTTGCACCCTGAAATGGATTTTGGAGAACAA
AGCAGGGATTTTATTTCATCATTAAAGAGACCTTTTTTAGAGCCAAAGAAGCATGTAGGTGG
TCGTGTGATGGTAACAGATGCTGACAGGTCAATACTATCTCCAGGTGGAAGTTGTGGCCC
CATCAAAGTGAAAACCTGAACCCACAGAAGATTCTGGCATTTCCTTGAAATGGCAGCTGT
GACAGTAAAGGAAGAATCAGAAGATCCTGATTATTATCAATATAACATTCAAGCAGGCCC
TTCTGAAAACCTGATGATGTTGATGAAAAACAGCCCCTATCGAAGCCTTTGCAAGGAAGCCA
CCATTCTTCAGAGGGCAATGAAGGCACAGAAATGGAAGTACCAGCAGAAGATGATGATTA
TTCTCCACCGTCTAAGAGACCAAAGGCCAATGAGCTACCGCAGCCACAGTCCCGGAACC
CGCCAATGCTGGGAAGCGGAAAGTGAGGGAGTTCAACTTCGAGAAATGGAATGCTCGCAT
CACTGATCTACGTAAACAAGTTGAAGAATTGTTTGAAGGAAATATGCTCAAGCCATAAA
AGCCAAAGGTCCGGTGACGATCCCGTACCCTCTTTTTCCAGTCTCATGTTGAAGATCTTTA
TGTAAGAAGGACTTCCTGAAGGAATTCTTTTTAGAAGGCCATCTACTTACGGAATTCCTCG
CCTGGAGAGGATATTACTTGCAAAGGAAAGGATTTCGTTTTGTGATTAAGAAACATGAGCT
TCTGAATTCAACACGTGAAGATTTACAGCTTGATAAGCCAGCTTCAGGAGTAAAGGAAGA
ATGGTATGCCAGAATCACTAAATTAAGAAAGATGGTGGATCAGCTTTTTCTGCAAAAATT
TGCGGAAGCCTTGGGGAGCACTGAAGCCAAGGCTGTACCGTACCAAAAATTTGAGGCACA
CCCGAATGATCTGTACGTGGAAGGACTGCCAGAAAACATTCTTTCCGAAGTCCCTCATG
GTATGGAATCCCAAGGCTGGAAAAAATCATTCAAGTGGGCAATCGAATTAAATTTGTTAT
TAAAAGACCAGAATTCTGACTCACAGTACCACTGAAGTTACTCAGCCAAGAACGAATAC
ACCAAGTCAAAGAAGATTGGAATGTGAGAATTACCAAGCTACGGAAGCAAGTGAAGAGAT
TTTTAATTTGAAATTTGCTCAAGCTCTTGGAATCACCGAGGCAGTAAAAGTACCATATCC
TGTGTTTGAATCAAACCCGGAGTTCTTGTATGTGGAAGGCTTGCCAGAGGGGATTCCCTT
CCGAAGCCCTACCTGGTTTGAATTCACGACTTGAAAGGATCGTCCGCGGGAGTAATAA
AATCAAGTTCTGTTGTTAAAAAACCCTGAAGTATTTTCTTACTTGCTCCTGGGATGGC
TAGTAAATAAACTAAAGCTTTGCAGTCCCCAAAAGACCAGAAAGTCTGGGAGTAA
TTCAAAGGTTCTGAAATTGAGGTACCGTGGAAGGCCCTAATAACAACAATCCTCAAAC
CTCAGCTGTTTCGAACCCCGACCCAGACTAACGGTTCTAACGTTCCCTTCAAGCCACGAGG
GAGAGAGTTTTCTTTGAGGCCTGGAATGCCAAAATCACGGACCTAAAACAGAAAGTTGA
AAATCTCTTCAATGAGAAATGTGGGAAGCTCTTGGCCTTAAACAAGCTGTGAAGGTGCC
GTTTCGCTTATTTGAGTCTTTCCCGGAAGACTTTTATGTGGAAGGCTTACCTGAGGGTGT
GCCATTCCGAAGACCATCGACTTTTGGCATTCCGAGGCTGGAGAAGATACTCAGAAAAAA

FIGURE 1 (CONT'D)

AGCCAAAATTAAGTTCATCATTAAAAAGCCCGAAATGTTTGAGACGGCGATTAAAGGAGAG
CACCTCCTCTAAGAGCCCTCCCAGAAAAATAAATTTCATCACCCAATGTTAATACTACTGC
ATCAGGTGTTGAAGACCTTAACATCATTAGGTGACAATTCCAGATGATGATAATGAAAG
ACTCTCGAAAGTTGAAAAAGCTAGACAGCTAAGAGAACAAGTGAATGACCTCTTTAGTCG
GAAATTTGGTGAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCCTACAGGAAAATCAC
AATTAACCCTGGCTGTGTGGTGGTTGATGGCATGCCCCGGGGGTGTCCTTCAAAGCCCC
CAGCTACCTGGAAATCAGCTCCATGAGAAGGATCTTAGACTCTGCCGAGTTTATCAAATT
CACGGTCATTAGACCATTTCAGGACTTGTGATTAATAACCAGCTGGTTGATCAGAGTGA
GTCAGAAGGCCCCGTGATACAAGAATCAGCTGAACCAAGCCAGTTGGAAGTTCAGCCAC
AGAAGAAATAAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAACCAGACCCACGTG
GTAGACCTCTTCCCTCCTAGGCTTAAAGTATCAGTGGTTGAGAAGAGCTTTTCGGACCTG
TTACTACCCCAAGCTGTGTAATATACTTGTATAACAGAAATACCTTCTATACAAACCTTT
TTTTCTACTTTTAGATAGAAATGTCTACTTTTTTCAGCAGTTCTGTGAATTAAAGAGCAGA
GTGACTGTGGGTCTGGAATGGCTGGTGTACTTGGGAATGTACTATCAGGATTTTACAGCA
ATGCTGGGAAATGACAGGGAAAATGACAGGAATGAATCTCACCAGATTTTTTATGTACTC
AGCAGAGCCTTGAGTTACGGTGTATTATTTTCCAATCAAGTGAAGATATCTCCTACTTCTC
CTACTGGAACATCTCAGCTTCTGCAGTGAAGAAAAATTCCTGTGATAGTTAGTTCTTTA
GTTTTTCTATTTGAAAAAATAAATCATTAAATGATCCTTTGTTTCAGGCTCTCCTTAA
TGACTGAGTGAACAGTTCCTATCTGTATATTTGACTAAACCTTTTCTAAGCTATCTCTC
ATGGTTCCTATGTTTTTTTATCATAATTAAGCAAAACCATCTGGATCACCTAACAGTC
AGAGGTGAGTATCTCAGCGTGTGAATTATAGAGGAAATACAGAGAGAACCTCTTCCACTT
TTACTTTTTCGTCCAAATAAAATGCATGGTGTACCAGAAGTTGAAGATCGGGTTGAGGATT
GGGGCTAGCTCGATGACACTAAGGCCCAACATCGCGGGACCTGCTGTGGCGCGGATTCT
TAGGAACGCTGTTCTAGCCGGCCCCCTCTCCAGGGGTGCGCGTGGCCGGCATTATTTCT
AGTTCTTCTTGTAACCTGAGGTGCCAGCGCGGGGAGTGAGGAGGGGTGAGGGGGCTAAG
GATGCAACCTCTGACGTTCTGCGCCTTCCTAGGAGAGTCTTACATGTGTTGAGATTTAC
AAGCAATGCGAGTTGTAAATACCAGCTCTACAAGAAGCTAGGCTCTGTGACGGCATAGT
TTTCAGTAGCTTTATCACAATATTACAATGGAGAATTATATGACATGGTAGCAGAAATA
GGCCCTTTTATGTGTTGCTTCTATTTTACCTCAAATTGTAGATATAGGGTAATCAATAAA
ATCCATCCATGCCTTTTACACACTAA

Gene 543. >ENST00000324842 cDNA sequence

ATGGCAGCCATGCGCTGGCGATGGTGGCAGCGGCTGTTACCTTGGAGGTTGCTGCAGGCC
CGTGGCTTTCCACAAAATTCTGCACCCAGCCTGGGCCTAGGAGCGAGGACTTATTCCCAG
GGCGACTGCTCGTATTTCGCGCACGGCGCTGTATGATCTGCTCGGCGTCCCCTCCACAGCC
ACGCAGGCCCAAATCAAGGCGGCTTACTACCGTCAGTGCTTTCTCTACCACCCGGACCGC
AACTCCGGGAGCGCGGAGGCCGCCGAGCGCTTACGCGCATCTCCAGGCCTACGTGGTG
CTGGGCAGTGCCACCCTCCGTGCAAGTATGATCGCGGCCTACTCAGCGACGAGGACCTG
CGCGGACCTGGCGTCCGGCCCTCCAGGACGCCCCGACCCGACCCCGGCTCGCCGCGTACC
CCGCCGCCACCTCTCGGACCCACGACGGTTCTCGGGCCTCCCCCGGCGCCAACCGCACG
ATGTTCAACTTTGACGCTTCTACAGGCCCACTACGGGAACAACCTGGAGCGGGAACGG
CGCCTGAGGGCCCGGGGAGGCCCTTCGAAAACGGCAGGAGTATCGGTCCATGAAAGGC
CTCCGCTGGGAGGATACCCGAGACACGGCTGCCATTTTCTCATCTTTTCAATCTTCATC
ATCATCGGCTTTTATATTTAA

Gene 544. >ENST00000222812 cDNA sequence

CATGAAGGACCGAACCCAGGAGCTCCGCACGGCCAAGGACAGCGATGATGATGATGATGT
CGCTGTACCGTGGACCGAGACCGCTTCATGGATGAGTTCTTTGAGCAGGTGGAGGAGAT
TCGAGGCTTCATTGACAAGATCGCAGAGAACGTGGAGGAGGTGAAGCGGAAGCACAGTGC
CATCCTGGCATCCCCAACCCCGATGAGAAGACGAAGGAGGAGCTGGAAGAATCATGTC
CGACATAAAGAAGACAGCAAAACAAAGTTCTGTTCCAAGTTAAAGAGCATCGAGCAGTCCAT
CGAGCAAGAGGAAGGCCTGAACCGCTCCTCCGCTGACCTGAGGATCCGGAAGACACAGCA
CTCCACGCTGTCCAGAAAGTTTGTGGAGGTGATGTCGGAGTACAACGCCACGAGTCCGA
CTACCGCGAGCGCTGCAAAGGCCGATCCAGAGGCAGCTGGAGATCACCGGCAGGACCAC
GACCAGTGAGGAGCTGGAGGACATGCTGGAGAGTGGGAACCCCGCCATCTTTGCCTCTGG
GATCATCATGGACTCCAGCATCTCGAAGCAGGCTCTGAGCGAGATTGAGACGCGGCACAG

FIGURE 1 (CONT'D)

TGAGATCATCAAGCTGGAGAACAGCATCCGTGAGCTACACGACATGTTTCATGGACATGGC
CATGCTCGTGGAGAGCCAGGGAAGATGATTGACAGGATCGAGTACAATGTGGAACACGC
GGTAGACTATGTGGAGAGGGCCGTGTCTGACACCAAGAAGGCCGTCAAGTACCAGAGCAA
GGCGCGCCGGAAGAAAATCATGATCATCATCTGCTGTGTGATCCTGGGCATCGTCATCGC
CTCCACTGTTGGGGGCATCTTCGCCTAGAAGCCACCCAACTGCCACTCCACTCCAGGTG
GGCCACTCCAAGGAGGCCCTGGCTGCTGCCACCTGGCTGGGCTGCCCTCCCAACCCCGC
CTCTGGCTCAGAGCACCTCCCTCCCGGCCCCCATGCTCCCTTCTCTGCCATGGGCCCTC
CGTCCCCGCCCCGTGTCTGTGTCATGATCTCTGTGAGTGTGCGTCTGTACGGGAAGAGGC
AGAGGGAGGCAGCCAGCGGGCGTGATGCAGTGTGCACAGCGAGGAGCAGACCCAGGCAG
GGCCGCCAGGGTGACACAGGCCACCTTCCTTGCTTCAGTAACTCGGTGGGCCCAGGTT
CTGCTCTTCCCTGGGGACCCTAACCTCGCCTCCAGCTGACCTGCCCTGTCTCTCCAGCT
GTCCCCACAAGCAGAGCCCTGAGGGGTGGGGACCAGCTGGCCACATGGTGCTGCTTTTCA
GGTTAGGGGAGAGGTGGCCCTGAGGGACAGCCAGCTCTGAGTCTCAGTCGCTGATCACT
GCCAGGGAGGCTCAGGCTGCCATGGCTCCAGGCTCCCTCCCTGCTAGGGGCAAAGTCC
ATCGGGTCTGGGCCTCAGCTTCCCTTCCACATTCTCCGGCCCCAGGAGCAACCCCTT
GGGCTAGGTCTGACCCAGGTGTCCCTCTGGAAGGGGCTGGCTGGTGCCCTATTTCCAGC
CACCCAGCAGCTAGGGAGGCAAAGCAGGCTGCAGTCAGTCCCTCAAGCCAGCGTTGCAT
GTTTGGGATGGTGGCTCCTGTTGTCTTGCGCTCTGGGAAGTCAGATGTCAATTCAGGCCT
GCAGTCTCATCTGCCCTTGCCATCCTCCCATCGATGTGCCACGTGGGTGTACGTGTCC
CAGATGCAGTATTTCGGCAGCCAGCCGGGGAGGGCTACCTCCTCCTCCTACCACCTTGGG
GCTTCTCATGGGAAATGTGCCCCCGCCCCAGGACCTCTCCTTGTGGACAGGCAGGGAG
ATGCATGCGAGTGCATGCAGCAGGGGATGGGGCCGTGTCCGTGTGCCCCACCTCCCTCG
GCTTTACTCCTGCCAGTGAAGTGTGACCACTGTCCGTGTTGCTTCTTGAACAGCGATT
CCCCCAACCCCTTACCAAAGGTCTTGGTACAACAGCTGCCCATTTTGTGAAATTTT
TGTAAGATAAACATTTGTATCTGTA

Gene 545. >ENST00000222800 cDNA sequence

GGGCGGGGCTGCGAGCTAGGGCGGGGAGAAGGAGCGCGGGGAGGACGTACCTTGTGAGATG
CGAGCCGGCCAAACAGCTTGCAAGCATGCTCCGCTGGACCCGAGCCTGGAGGCTCCCGCGT
GAGGGACTCGGCCCCACGGCCCTAGCTTCGCGAGGGTGCCTGTGCGACCCAGCAGCAGC
AGCGGCGGGCCGAGGGGGCGCCGAGCCGAGGCCGCTTCCGCTTTCTACAGGCTTCTGGAC
GGGGAGGCAGCCCTCCCGGCCGTGCTCTTTTGCACGGGCTCTTCGGCAGCAAACTAAC
TTCAACTCCATCGCCAAGATCTTGGCCAGCAGACAGGCCGTAGGGTGCTGACGGTGGAT
GCTCGTAACACCGGTGACAGCCCCACAGCCAGACATGAGCTACGAGATCATGAGCCAG
GACCTGCAGGACCTTCTGCCCCAGCTGGGCCTGGTGCCCTGCGTCTGTTGGCCACAGC
ATGGGAGGAAAGACAGCCATGCTGCTGGCACTACAGAGGCCAGAGCTGGTGGAACGTCTC
ATTGCTGTAGATATCAGCCAGTGGAAGCACAGGTGTCTCCCACTTTGCAACCTATGTG
GCAGCCATGAGGGCCATCAACATCGCAGATGAGCTGCCCCGCTCCCGTGCCCGAAACTG
GCGGATGAACAGCTCAGTTCTGTTCATCCAGGACATGGCCGTGCGGCAGCACCTGCTCACT
AACCTGGTAGAGGTAGACGGGCGCTTCGTGTGGAGGGTGAACCTGGATGCCCTGACCCAG
CACCTAGACAAGATCTTGGCTTTCCACAGAGGCAGGAGTCTACCTCGGGCCAACACTC
TTTCTCCTTGGTGGAACTCCCACTTCGTGCATCCAGCCACCACCTGAGATTATGCGG
CTCTTCCCTCGGGCCAGATGCAGACGGTGCCGAACGCTGGCCACTGGATCCACGCTGAC
CGCCACAGGACTTCATAGCTGCCATCCGAGGCTTCCTGGTCTAAGAGTTGCTGGCAAGA
AGATGGCCGGGCGTGGTGGCTCATGCCTGTAATTCAGCACTTTGGGAGGCTAAGGCGGG
AGGATGACTTGAGGCCAGGAGTTGGAGACCAGCCTGGCCAACATGGTGAAACCTGTCTC
TACTAAAAATACAAAATTAGCCTGGCGTGGTGGTGACACCTGTAATCCAGCTACTCT
GGAGGCTGAGGCAGGAGAATCACTTGAACCTGGAGGCAGAGGTTGCAATGAGCCGAGAT
CACACCACTACACTCCAGCCTAGGCAACAGAGCAAGACTCTGTCTCAAAAAAACAAC
AAAAAGGAGGCACAAAACCCAGGCTTCAAGTCTCTGCAGCCTGCTCCACATTTGGGCAC
AGAAGGACTCAGACAGGCACTGTGTGGGCACGAGGTTTACAGGGGTGGTCAGACCTCAG
GCTTTAATGAATAAAGACACTACTCCC

Gene 546. >ENST00000322862 cDNA sequence

GGGCGGGGCTGCGAGCTAGGGCGGGGAGAAGGAGCGCGGGGAGGACGTACCTTGTGAGATG
CGAGCCGGCCAAACAGCTTGCAAGCATGCTCCGCTGGACCCGAGCCTGGAGGCTCCCGCGT

FIGURE 1 (CONT'D)

GAGGGACTCGGCCCCACGGCCCTAGCTTTCGCGAGGGTGCCTGTGCGACCCAGCAGCAGC
AGCGGCGGCGGAGGGGGCGCCGAGCCGAGGCTTCTGGACGGGGAGGCAGCCCTCCCGGCC
GTGCTCTTTTTGACGGGCTCTTCGGCAGCAAACTAACTTCAACTCCATCGCCAAGATC
TTGGCCAGCAGACAGGCCGTAGGGTGTGACGGTGGATGCTCGTAACCACGGTGACAGC
CCCCACAGCCAGACATGAGCTACGAGATCATGAGCCAGGACCTGCAGGACCTTCTGCCC
CAGCTGGGCCTGCCTGCTCCACATTTGGGCACAGAAGGACTCAGACAGGCACTGTGTGGG
CACGAGGTTTTACAGGGGTGGTCAGACCTCAGGCTTTAA

Gene 547. >ENST00000324941 cDNA sequence

GGCCGGAGCCGGAGCGGATCCTGGAGCCGGAGCGGAGCGGAGCGGAGCCGGGGCG
GAGCGGGCCGAGCGGGCCGAGCCAGCAGCCGAGCTGGGGGCGCGGGCGGGCGGCATGTAC
CGGGCCCGGGCGGCGGGGCGGGGCGGAGCCCGGAGCCCGGGGCGCTTTGGGATCCTC
AGCACCGGGCAGCTCCGGGACCTGCTTCAGGATGAGCCCAAGCTGGACCGGATCGTGCGG
CTCAGCAGGAAGTTCCAGGGCCTGCAGCTGGAGCGTGAGGCCTGCCTGGCCTCCAACCTAC
GCGCTGGCCAAGGAGAACCTGGCCCTGCGGCCCGCCTGGAGATGGGCGGGCTGCCCTG
GCCATCAAATACCAGGAGCTTCGTGAGGTGGCCGAGAACTGCGCGGACAAGCTGCAGCGA
CTGGAGGAAAGCATGCATCGCTGGAGTCCCCACTGCGCGCTGGGCTGGCTGCAGGCTGAG
CTAGAAGAGGCGGAGCAGGAGGCAGAGGAGCAGATGGAGCAGCTGCTGCTCGGGGAGCAA
AGCCTGGAGGCCTTCTGCTGCCTTCCAGCGTGCGCGCCCTGGCCACCTGAGGCGG
ACGCAGGCAGAGAAGCTGCAGGAGCTGCTGCGGCGTCGGGAGCGTTCTGCCAGCCGGCC
CCCACCTCGGCTGCTGATCCCCCAAAATCCTTCCCGGCTGCAGCTGTCCTGCCCACTGGG
GCCGCCCGGGGGCCACCAGCAGTGCCCCGGAGCCTGCCCCCTTGGACTCCCGCCAGTG
CCCCCACTGAAGGGCTCCCCCGGGTGCCCCCTCGGCCCGGCCCCCTGCTGAGCCCTCGG
CCCTCGCAGCCAGAGCCCCCCCCACCGGTAGGATCCACGGTGCGGCCCCCAGTTGGGGGG
CCTAGACAAACTTGATGCGTGGCTCCTCCTCCTCCCCACTGCTGGGTGGGGGGAGGGG
CAGGCCCCCTCCCCCTGGCCTCAGGCAGGCCCTGGCCCTGGAGGCTGAGCTGGGGAGGAGG
GTCCCCTGGAAGAGGCCCGAGAGGGGGCTGGGGGTGGGTGGGCAGGGCTTTATGCCTCTG
GCGCTGAAGACACCCTGCCTTTTTTGTTCCTGCGCCCGGGGCTCTAGGGTGATGGACC
AGCCCCGTTAAAGAACTTGACTCAACTACAGGGGCCTGGGAAGATGCCTGGGTCCCCTAG
GGGCCTTGCCAAGGGGACCTGTGCGACCCCCACCACTCCACTGGGCTCGCACAAAGCCAAG
GCCGCCAGGAGTGTTTTACATCATGTCTGAGCCTACCTTTCCCCCAAATTCTGGGGCCC
ACAGCCTAGGAGCCAGGTGATCAGGCCTCGGCTGTGGGGCCAGGGACACCATGGCCCTGG
GGCTACTACGTGTCCACACATGCTCCAGACCCTGGGGCAAGGTAGGCCAGGGGCTTCTGA
CCTGTGCAGGTGAGAGTGGGCCATACCCAGGAAAGACCATTCTGTATTTTTCTGTCCCTG
TCTCCTTAGAATGGAAGCTTTTTGAGGGCAGGTCTTGTCTTTGTACGTTCTGTCCCCAG
CCCCGCCTCTTAGGGGCCGTCAATAAATGTGATGATGAGGATG

Gene 548. >ENST00000265758 cDNA sequence

GACATAAAACCGGGTGCCGGCAGGCGCCAGTCGCGAGGTGTGCTGCTGAGGCGTGAGAAT
GGCGTCCCGCGGCGGGCGTCCGGAGCATGGCGGACCCCCAGAGCTGTTTTATGACGAGAC
AGAAGCCCGGAAATACGTTTCGCAACTCACGGATGATTGATATCCAGACCAGGATGGCTGG
GCGAGCATTGGAGCTTCTTTATCTGCCAGAGAATAAGCCCTGTTACCTGCTGGATATTGG
CTGTGGCACTGGGCTGAGTGGAAGTTATCTGTGAGATGAAGGGCACTATTGGGTGGGCCT
GGATATCAGCCCTGCCATGCTGGATGAGGCTGTGGACCGAGAGATAGAGGGAGACCTGCT
GCTGGGGGATATGGGCCAGGGCATCCCATTCAGCCAGGCACATTTGATGGTTGCATCAG
CATTTCTGCTGTGCACTGGCTCTGTAATGCTAACAAGAAGTCTGAAAACCTGCCAAGCG
CCTGTACTGCTTTTTTGTCTTCTTTTTTCTGTTCTCGTCCGGGGATCCCGAGCTGTCTT
GCAGCTGTACCCTGAGAACTCAGAGCAGTTGGAGCTGATCACAACCCAGGCCACAAAGGC
AGGCTTCTCCGGTGGCATGGTGGTAGACTACCCCTAACAGTGCCAAAGCAAAGAAATTCTA
CCTCTGCTTGTCTTCTGGGCCTTCGACCTTTATACCAGAGGGGCTGAGTGAAAATCAGGA
TGAACTTGAACCCAGGGAGTCTGTGTTACCAATGAGAGGTTCCCATTAAGGATGTGAG
GCGGGGAATGGTGAGGAAGAGTCGGGCATGGGTGCTGGAGAAGAAGGAGCGGCACAGGCG
CCAGGGCAGGGAAGTCAGACCTGACACCCAGTACACCGCCGCAAGCGCAAGCCCCGCTT
CTAAGTCACCACGCGGTTCTGGAAAGGCACTTGCCTCTGCACTTTTCTATATTGTTTCAGC
TGACAAAGTAGTATTTTAGAAAAGTCTAAAGTTATAAAAATGTTTTCTGCAGTAAAAAA
AAAGTTCTCTGGGCCGGGCGTGGTGGCTCACACCTGTAATCCAGCACCTTGGGAGGCTG

FIGURE 1 (CONT'D)

AGGTGGGAGGATCATTTGAGGCCAGGAGTTTGAGACCTGCCTGGGCAACATAATGAAACT
TCCTTTCCAGGGAGGAAAAAAAAAAAAAAAAAAGCTCTGAGAGCATCTTATTTTGT
AAGGCAAGAAATAAAATTTCTTTTGTGG

Gene 549. >ENST00000330383 cDNA sequence

ATGGCGGCCTCAGCAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTTT
CTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCAAACCACTCAGCTGG
GCTGATGAAACGGATGACCTGGAAGGAGATGTTTCTACAACCTGGCAAGTAACGATGAC
GATGTGTACAGGGCGCCTCCAATTGACCGTTCCATCCTTCCCACTGCTCCACGGGCTGCT
CGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCCTACACTGCTTTTCTA
GGAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTCGAGGATTAAAT
ATCAGTGCACTGCGTTTACCACGTGAACCCAGCAATCCAGAGAGGCTGAAAGGTTTTGGT
TATGCTGAATTTGAGGACCTGGATTCCCTGCTCAGTGCCCTGAGTCTCAATGAAGAGTCT
CTAAGTAACAGGAGAATTGAGTGGACGTTGCTGATCAAGCACTGGATAAAGACAGGGAT
GATCCTCCTTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACAGATACAGACTGGAGG
GCTCACCGGTATCGGGATGGGTATCGGGATGGCCACGCCGGGATATGGATCGATATGGT
GGCCGGGATCGCTATGATGACCGAGGCAGCAGAGACTATGATAGAGGCTATGATTCCCGG
ATAGGCAGTGGCAGAAGAGCATTGTCAGTGGGTATCGCAGGGATGATGACTACAGAGAA
GGCAGGGACTGCTATGAAGACCAATATGACAGACGGGATGATCGGTCCCCCCCCCCCCAA
AGACCCAACTGAATCTAAAGCCTCGGAGTACTCCTAAGGAAGATGATTCTCTGCTAGT
AACTCCAGTCCACTCGAGCTGCTTCTATCTTTGGAGGGGCAAAGCCTGTTGACACAGCT
GCTAGAGAAAGAGAAGTAGAAGAACGGCTA

Gene 550. >ENST00000327475 cDNA sequence

CCCGGGGCAGCGCAACCGCTGGGGCCGGCCTCAGTGGGCTGAGTGGTCGGGGCATCGGGG
CCCAGAGAGCGGCTGGTTTTCGAAGTATAAAGCATTCCGCACGACGGGGGATGGAGAAGGA
TGCTGAAGATGGCGCCCTTCTGAGGGAGCAGAGGCTCCTCCCTCTACGGAAGAGGCTGC
CCCTCCCCGTTTCTGAGAGGAAGAGGCCCCGCGCCCTCCGACAGTGGAGGCCCCGGCAGA
AGATGGTTTTCTCTCCTTCCGCAGAAGATGCTGTTTTCTTCTGTGGTGGATTATCGGGATCT
CATTCTTTCTGAAGAAGGGATAGTTCTTCCAGATGATCATGAAGCGGATCTGAATAGAGT
TCGACAGAGGCTTGACCCGCGACCGGTTTCTGAGTGGATTTTCCGAAGTGTCTGCTTCC
GTCTTCCCCGAGGTCCTCCAGATACCGCCGGAGTATGAGTGGCCTTCCCAATCTACAGGA
AACATTAAGAGAGAGACAGGCAAGATTTAGAGAGGCAAGGGAAAGCCGAAGACTGAAAAT
TGACCCCTTCATACAAATATATATTTGAAATTCTAGCAGAAAATCTTGGCCTGGACATAGT
AACTGTTGAAGAATTAATTTTGGATTGCCCATCTCTGGAAGCATTTTACTAATTTTTTGC
GAAAGATGGTTGTAAGACACTGAAATTTTTGTACCAAGAAGGAGATGTACCTGGTATTGA
ATGTGGTCAACTATTGCTGGAGCAACTAAAGGGGCAAAA

Gene 551. >ENST00000244746 cDNA sequence

CTAGTTAAGGCGGCACAGGGCCGAGGCGTAGTGTGGGTGACTCCTCCGTTCTTGGGTCC
CGTCGTCTGTGATACTGCAGCGCAGCCATGGCAGAACCGCAGCCCCCGTCCGGCGGCCTC
ACGGACGAGGCCGCCCTCAGTTGCTGCTCCGACGCGGACCCCACTACCAAGGATTTTCTA
TTGCAGCAGACCATGCTACGAGTGAAGGATCCTAAGAAGTCACTGGATTTTTTATACTAGA
GTTCTTGGAATGACGCTAATCAAAAATGTGATTTTCCATTATGAAGTTTTCACTCTAC
TTCTTGGCTTATGAGGATAAAAATGACATCCCTAAAGAAAAGATGAAAAATAGCCTGG
GCGCTCTCCAGAAAAGCTACACTTGAGCTGACACACAATTGGGGCACTGAAGATGATGAG
ACCCAGAGTTACCAATGGCAATTCAGACCCTCGAGGATTCGGTCATATTGGAATTGCT
GTTCTGATGTATACAGTGCTTGTAAAAGGTTTGAAGAACTGGGAGTCAAATTTGTGAAG
AAACCTGATGATGGTAAAATGAAAGGCCTGGCATTATTCAAGATCCTGATGGCTACTGG
ATTGAAATTTTGAATCCTAACAAAATGGCAACCTTAATGTAGTGCTGTGAGAATTCTCCT
TTGAGATTTTCAAGAAAGGAAACAATGTGATTCAAGATATTTACATACCAGAAGCATCT
AGGACTGATGGATCACTGTCCCGATTCAAATATTCTTCAGTCCATTTCCCCTTCTTATT
TCAGCTGTTCTTTTACCTAACTGTTTCACTGATTCTGGTTTTTCAAGCAGTGCTTTATCT
CATGTCCTTGAATATAGTTGTGTAACCTTTATTTTTTAGGTAATAATTAGAACAGTTCCTT
TCAGAGGCTGCATTTGCCTTCTTCTGCCACCTAAATATTACTTCCCTTCAAATCTGCCTT
TGAATCATCATTTTTTAAAAAAAATTAACATGTTTTTGTGTAGTTATCTTCTGGGGTTT
CAATTCCTCAGAAACAATTTTTTCAACCGGAAAGGAAAGAACACTAGTGTCTTTTTCAG

FIGURE 1 (CONT'D)

TAAAGTACAAAGTGTTTATTTTACAAAAGAGTAGGTACTCTTGAGAGCAATTCAAATCAT
GCTGACAAGGATACTGATAGAAAAAGTGATTTCTTCTTATTATAAAGTACATTTAAAGTT
CAAGGACTAACCTTATTTATTTGGGAAAGGGGAGGAGGAAGGAAATGATATGGTACCCAG
ACACTGGGCTAGGCTGCAACTTTATCTCATTTAATACTCCAGCTGT CATGTGAGAAAGA
AAGCAGGCTAGGCATGTGAAATCACTTT CATGGATTATTAATGGATTTAAGAGGGCATCA
ATCAGCTCAACTCAAGATTTTATAATCATTTT TAGTATTTAGATTGTGCCTCAAAGTTGT
AGTACCTCACAATACCTCCACTGGTTTCTGTGTTGTA AAAACCTTCAGTGAGTTTGACCAT
TGTGCTCTTGGCTCTTGGGCTGGAGTACCGTGGTGAGGGAGTAAACACTAGAAGTCTTTA
GTACAAAACCTGCTCTAGGGACACCTGGTGATTCTACACAAGTGATGTTTATATTTCTCA
TAAAGAGTCTTCCCTATCCCAAGGTCTT CATGATGCCAGTAGCCATATATGATAAATTAT
GTT CAGTGATAACTTAGTTATCAGAAATCAGCTCAGTGGTCTTCCCCGCCATGATTCACA
TTTGATGAGTTTTTAAAAATCAAAGTGATTTTGAAAATCTCTAATGGCTCAGAAAATAAA
AACATCCAGTTTGTGGATGACTATATTTAGATTTCTCTAGACTCTAGTGGAAGACCTTTG
GAAAGGCCATGCCAACCGTGCTTGTA CTGCTAGAAGCACTTTATGTTTCTTTTGGGTG
AAATGGATTTATGTGAGTGCTTTAAACAAATAGCAATACTTATAGACTGAAATAAAATGA
AACTTCAAATAAG

Gene 552. >ENST00000335506 cDNA sequence

CAGCTCTACATCCTGTAGATTCTCACACCCAGGGCCTCCTTCGGCCTCTTCTCAGGGGAG
TCTCAGAGCAGGAGCCTCTCTCCCTTGCCAGTGAAAGTCATTCTCCCTCTCTCATCCA
CCTCACCCGCGGCCACAATCCTGAGACTTTCCCCCGGGAGGCACACTTCTCCTCGCTGCC
CTGCTGCTCTCACGAAACCTGTCTGCTTCTCACACTGACATCTGCTCTCTAATCACA
GAGGATCCTGTCAATTAAGACTCCTGGCCTGGGACAAAGATCTGAGGGTGTCTGGACAAG
TATCTCCTGGCTATGGTCATAGCGTATTT CAGCCGGGCGGCCTCCCCTCCTGGCAATAC
CAACGCATTCAATTTCTTCTGGCTCTCTATCTGGCCAATGACATGGAGGAGGACGACGAG
GCCCCCAAACAAACATCTTCTACTTCTGTACGAGGAGACCCGCTCTCATATACCCTTG
CTCAGTGAGCTTTGGTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAAGTGC
TCTCAGATAGCCTTGTTCCGGAAGTATCGGTTCCACTTCTTTTGTTCATGCGCTGCAGG
GCTTGGGTTTTCCCTGGAGGAGTTGGAAGAGATCCAGGCTTATGACCCAGAGCACTGGGTG
TGGGCGCGAGATCGCGCCACCTTTCCTAGAGCTCCAGGGACCGTGAGGCCTGAGGTCA
TCGGCCTGAGAGAAGAACACCGGACCCAGGGGAGATGTGGATTTT CAGCAGGAACCTTAT
TCCAATGCTAATGGCAGACATCAGGAAGGAGGAGAGGAACCATTTGTGCAGATCATCTAG
AAGAACCTGGACCATTTCTTGACAGAGCTGAATACAGTGATCACGTTGTCTCCAAGGAGC
AGGGGTGGGGTGGGGTACTTCTAGGAGTCCTTGGAGAAAAGTAAGAAACAGGAGTGTTT
CCAGTTCCACCTTTTCTGCGGCACCACTCCCTTTTTATATTGCTGAATGCCAACCTCC
CTGGGGCGGAACCTGGAGGTCTGTTTCTTATGGA CTGGTTGTCAAGTCCAGGAGCAT
TTGAAGGCACAGTG CAGGGGCTCAGATTGGCACAGAATTCTTTGTGAAATATGAGTGCCA
CAGACTGTAACAGATAGCTTCATGCACACTATGCATTTTATTGGTTTGTGTTGAAAATGT
TGGCCATTGAATTATTAATAGGTTTATTTCAAATAGTTTGGAAATTGTTGTACTTTTGAA
AACATGCTGTTCTGTAGAGTTTTTTTGATGAGAGTTATAGTTGTTATATATACCTAAAGA
TAATTTTCTTTTCATTTTTAAGTGAGAATTCTTTTTATCCTAAATCTTTTATTATCTTTA
ATTTTTTTTCTGTATTATTATATGTGCTCCTGAAGCGAGCACTCTTTTTATCTATGATAC
TTCCATAATAATCTCTTCTATTTATAGCTATTGGTAGTTCCCCACAGAAAAAACATAA
TTCTGGTGATAGAAATTTTTATTTGCTGTTTAGGTTTGTGACTGACTTGTGAGAATT CAG
TTGTGATTTTTTAACATGTCTCAGATATATATACTAACACGTCTAATATATACTATCTATT
TTATTGGTTTATTTTGA AAAACATGGGTATAGAATTATTTAAATATTATTTTATTACTG
AAATATTTATTAATATATTTATTTTAAATATTATTATTACTTTAAATATTATTTTA
AATATTTTGGAAATACTGGTATTTTGAATAGATGCTGTTTCTATAAAGCTGTGTGATGG
GTATTATAACTGTTGTATACACATACATATAATTTTGTTCCTTTTAAAGAGAGGATT C
TTTTTCATCCTAAATCTTTTACCTTTCAATCTTTGTATCTATTATTACACGTGCTGCTGAA
GGGAGCATGGTTTTTATCTATGATACTTAGTTAACATATATATTACATTTATAGCTATGT
GGTAGTTCCCCTAAATTCTTGTA AAAATAAAATTTTTATTG

Gene 553. >ENST00000330925 cDNA sequence

ATGGGGGACACCTTCATCCGTACATCGCCCTGCTGGGCTTTGAGAAGCGCTTCGTACCC
AGCCAGCACTATGTGAGTAGCTGGTACATGTTCTCTGGTGAAATGGCAGGACCTGTCTGGAG

FIGURE 1 (CONT'D)

AAGGTGGTCTACCGGCGCTTCACCGAGATCTACGAGTTCCATAAAACCTTAAAAGAAATG
 TTCCCTATTGAGGCAGGGGCGATCAATCCAGAGAACAGGATCATCCCCACCTCCCAGCT
 CCAAGTGGTTTGACGGGCAGCGGGCCGCCGAGAACACCAGGGCACACTTACCGAGTAC
 TCGGCACGCTCATGAGCCTGCCACCAAGATCTCCGCTGTCCCCACCTCCTTGACTTC
 TTCAAGGTGCGCCCTGATGACCTCAAGCTCCCCACGGACAACCAGACAAAAAGCCAGAG
 ACATACTTGATGCCCAAAGATGGCAAGAGTACCGCGACAGACATCACCGGCCCCATCATC
 CTGCAGACGTACCGCGCCATTGCCAACTACGAGAAGACCTCGGGCTCCGAGATGGCTCTG
 TCCACGGGGGACGTGGTGGAGGTCTGGAGAAGAGCGAGAGCGGTTGGTGGTTCTGT CAG
 ATGAAAGCAAAGCGAGGCTGGATCCAGCATCCTTCCTCGAGCCCCTGGACAGTCTTGAC
 GAGACGGAAGACCTGAGCCCAACTATGCAGGTGAGCCATACGTCGCATCAAGGCCTAC
 ACTGCTGTGGAGGGGACGAGGTGTCCCTGCTCGAGGGTGAAGCTGTTGAGGTAATTAC
 AAGCTCCTGGACGGCTGGTGGGTCTCAGGAAAGACGACGTCAAGGCTACTTCCCGTCC
 ATGTACCTGCAAAAGTCAGGGCAAGACGTGTCCAGGCCAACGCCAGATCAAGCGGGG
 GCGCCGCCCCGAGGTCTGTCATCCGCAACGTGCACAGCATCCACCAGCGGTGCGGAAG
 CGCCTCAGCCAGGACGCCTATCGCCGCAACAGCGTCCGTTTTCTGCAGCAGCGACGCCG
 CAGGCGCGGCCGGGACCGCAGAGCCCCGGGAGCCCGCTCGAGGAGGAGCGGCAGACGAG
 CGCTCTAAACCGCAGCCGGCGGTGCCCCGCGGCCGAGCGCCGACCTCATCTGAACCGC
 TGCAGCGAGAGCACCAAGCGGAAGCTGGCGTCTGCCGTCTGAGGCTGGAGCGCAGTCCCC
 AGCTAGCGTCTCGGCCCTTGCCGCCCCGTGCCTGTATATACGTGTTCTATAGAGCCTGGC
 GTCTGGACGCCGAGGGCAGCCCCGACCCCTGTCCAGCGCGGCTCCCGCCACCCTCAATAA
 ATGTTGCTTGGAGTGA

Gene 554. >ENST00000297906 cDNA sequence

ATGTCTGTGTCCAAAGAATATAACCTAAGACGCCACTATCAAACCAATCACAGCAAGCAT
 TATGACCAGTATACGGAAGAATGCGTGACGAGAAGCTTCACGAGCTGAAAAAGGGCTC
 AGGAAGTATCTCTTAGGCTCGTCAGACACCGAGTGTCCCGAGCAAAAAAAGTGTGCA
 AACCAAGTCCAACCCAGAAATCCCCCGTCAGCCTGTAGAGGACCTAGCTGGGAACTTA
 TGGGAGAAGTTACGTGAAAAATCAGGTCTTTTGTGGCATATTCTATCGCAATCGATGAG
 ATCACCGATATAAATAATACCAACCCAGTTGGCCATATTCATCCGTGGTGTGATGAGAAT
 TTCGATGTGTCCGAAGAACTTCTGGATACGGTGCCACGACGGGTACAAAATCTGGAAAC
 GAGATCTTTTCGCGTGTGAGAAGAGCCTGAAAAAGTTCTGTATCGACTGGTCGAAATTA
 GTAAGCGTGGCCTCCACTGGCACCCCAGCGATGGTGGATGCCAATAACGGGCTTGTTACA
 AAAGTGAAGTCCAGGGTGGCGACGTTCTGCAAGGGTGCAGAACTGAAGTCCATCTGTTGT
 ATAATTCATCCGAAATCACTCTGTGCTCAGAAGTTGAAGATGGACACGTCATGGACGTG
 GTAGTGAAGTCCGTGAAGTGGATATGCTCCCGGGGACTGAACCAAGCGAGTTTCAACCC
 TTGCTCTATGAGCTGGACAGCCAGTATGGTAGCCTCCTGTACTACACGGAGATTAAGTGG
 CTCAGTCGCGGGCTCGTGCTAAAGAGATTTTTTGAATCCTTGGAAGAAATCGACTCCTTC
 ATGTCATCCAGAGGGAAACCCCTGCCTCAACTGAGCTCCATAGATTGGATCCGAGACCTG
 GCCTTCTTGGTTGACATGACGATGCATCTGAACACTTTGAACATCTCTCTCAAGGACAC
 TCCCAAATCGTCACGCAGATGTATGACCTGATCCGGGTGTTCTAGCAAACTGTGCCTC
 TGGGAGACTCACTTGACGAGGAATAATCTGGCCCACTTTCCCAACCTGAAATTGGTTTTCC
 AGAAATGAAAGCGATGGCCTGAACTACATTCCCAAAATCGCGGAACTCAAGACCGAATTC
 CAGAAAAGGCTGTCTGATTTCAAACCTACGAAAGCGAACTGACTCTGTTTCAAGTCCCCG
 TTCTCCACGAAGATCGACAGTGTGCACGAGGAGCTCCAGATGGAGGTATCGACCTGCAA
 TGCAACGCGGTCTGAAGACGAAATACGACAAGGTGGGAATACAGAATTCTACAAGTAC
 CTCTGGGGTAGCTACCCGAAATACAAGCACCATTGCGCAAAGATTCTTTTCATGTTCCGG
 AGCACCTACATCTGCGAACAGCTGTTCTCCATTATGAACTGAGCAAAACAAAATACTGC
 TCCAGTTAAAGGATTCCAGTGGGATTCTGTACTCCACATCGCAACG

Gene 555. >ENST00000334824 cDNA sequence

CAGCTCTACATCCTGTAGATTCTCACACCCAGGGCCTCCTTCGGCCTCTTCTCAGGGGAG
 TCTCAGAGCAGGAGCCTCTCTCCCTTGCCAGTGAAAGTCATTCTCCCTCTCTCATCCA
 CCTCACCCGCGGCCACAATCCTGAGACTTTCCCCCGGGAGGCACACTTCTCCTCGCTGCC
 CTGCTGCTCTCACGAAACCTGTCTGCTTCTCACTGACATCTGCTCTAATCACA
 GAGGATCCTGTATTAAAGACTCCTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAG
 TATCTCCTGGCTATGGTCATAGCGTATTTAGCCGGGCCGGCCTCCCTCCTGGCAATAC

FIGURE 1 (CONT'D)

CAACGCATTCAATTTCTTCCTGGCTCTCTATCTGGCCAATGACATGGAGGAGGACGACGAG
 GCCCCAAACAAAACATCTTCTACTTCTGTACGAGGAGACCCGCTCTCATATACCCTTG
 CTCAGTGAGCTTTGGTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAACTGC
 TCTCAGATAGCCTTGTTCGGAAGTATCGGTTCCACTTCTTTTGTTCATGCGCTGCAGG
 GCTTGGGTTTTCCCTGGAGGAGTTGGAAGAGATCCAGGCTTATGACCCAGAGCACTGGGTG
 TGGGCGCGAGATCGCGCCACCTTTCTAGAGCTCCAGGGACCGTGGAGGCCTGAGGTCA
 TCGGCCTGAGAGAAGAACACCCGACCCAGGGGAGATGTGGATTTTCAGCAGGAACCTTTAT
 TCCAATGCTAATGGCAGACATCAGGAAGGAGGAGAGGAACCATTTGTGCAGATCATCTAG
 AAGAACCTGGACCATTCTTGACAGAGCTGAATACAGTGATCACGTTGTCCTCAAGGAGC
 AGGGGTGGGGTGGGGTACTTCTAGGAGTCTTGGAGAAAAGTAAGAAACCAGGAGTGTTT
 CCAGTTCACCCCTTTCCTGCGGCACCACCTCCCTTTTTATATTGCTGAATGCCAACCTCC
 CTGGGGCGGAACCTGGAGGTCTGTTTCTTATGGACTTGGTTGCCACAGTCCAGGAGCAT
 TTGAAGGCACAGTGCAGGGGCTCAGATTGGCACAGAATTCTTTGTGAAATATGAGTGCCA
 CAGACTGTAACAGATAGCTTCATGCACACTATGCATTTTATTGGTTTGTGGAAAATGT
 TGGCCATTGAATTATTAATAGGTTTATTTCAAATAGTTTGGAAATTGTTGTACTTTTGAA
 AACATGCTGTTTCTGTAGAGTTTTTTGATGAGAGTTATAGTTGTTATATATACCTAAAGA
 TAATTTTCTTTTCATTTTTAAGTGAGAATTCTTTTTATCCTAAATCTTTTATTATCTTTA
 AATTTTTTCTGTATTATTATATGTGCTCCTGAAGCGAGCACTCTTTTTATCTATGATAC
 TTCCATAATAATCTCTTCTATTTATAGCTATTGGTAGTTCCCACCAGAAAAAACATAA
 TTCTGGTGATAGAAATTTTTATTTGCTGTTTAGGTTTGTGACTGACTTGTGAGAATTGAG
 TTGTGATTTTTTAACATGTCTCAGATATATATACTAACACGCTAATATATACTATCTATT
 TTATTGGTTTTATTTTGAAAAACATGGGTATAGAATTATTTAAATATTTTATTACTGAAA
 TATTTATTAAATATATTTATTTATTTAAATATTATTACTTTAAATATTATTTTAAAT
 ATTTTGAAATACTGGTATTTTTGAATAGATGCTGTTTCTATAAAGCTGTGTGATGGGTA
 TTATAACTGTTGTATACACATACATATAATTTGTTTTCTTTTTAAGAGAGGATTCTTT
 TCATCCTAAATCTTTTACCTTTCAATCTTTGTATCTATTATTACACGTGCTGCTGAAGGG
 AGCATGGTTTTTATCTATGATACTTAGTTAACATATATATTACATTTATAGCTATGTGGT
 AGTTCCCTAAATCTTGTGAAAAATAAATTTTTATTG

Gene 556. >ENST00000333149 cDNA sequence

AGAGCATGATGGGGCACGCGCGGTAGCGCGAGGCGGGGCATGTAACCATAGCGTGCGGGT
 CATGATGAGGCACGGACGTGGGGGGTTAGGTGGGGCACGTAATTGGAGCTCGCGGGGCAG
 GATGGGGCATCTAACTGGAGCGACAGAGAGCACGATGGGGCACTTACAGGGGCCGGAGGC
 TGGCCCCGGGCAGTGAGTGTGGATGGCTTGGCAGGTGAGCCTGCTGGAGCTGGAGGACTGG
 CTTCAGTGTCCCATCTGCCTGGAGGTCTTCAAGGAGCCCTGATGCTGCAGTGTGGCCAC
 TCTTACTGCAAGGGCTGCCTGGTTTCCCTGTCTGCCACCTGGATGCCGAGCTGCGCTGC
 CCCGTGTGCCGGCAGGCGGTGGACGGCAGCAGCTCCCTGCCCAACGTCTCCCTGGCCAGG
 GTGATCGAAGCCCTGAGGCTCCCTGGGGACCCGAGCCCAAGGTCTGCGTGCAACACCGG
 AACCCGCTCAGCCTTTTCTGCGAGAAGGACCAGGAGCTCATCTGTGGCCTCTGCGGTCTG
 CTGGGCTCCCACCAACACCAACCCGGTCAACCCCGTCTCCACCGTCTACAGCCGCATGAAG
 GAGGAGCTCGCAGCCCTCATCTCTGAGCTGAAGCAGGAGCAGAAAAAGGTGGATGAGCTC
 ATCGCCAAACTGGTGAAACAACCCGACCCGAATCGTCAATGAGTCGGATGTCTTCAGCTGG
 GTGATCCGCCCGCAGTTCCAGGAGCTGCACCACCTGGTGGATGAGGAGAAGGCCCGCTGC
 CTGGAGGGGATAGGGGGTCAACCCGTGGCCTGGTGGCCTCCCTGGACATGCAGCTGGAG
 CAGGCCCAGGGAACCCGGGAGCGGCTGGCCCAAGCCGAGTGTGTGCTGGAACAGTTTCGGC
 AATGAGGACCACCACAAGTTTCATCCGGAAGTTTCACTCCATGGCCTCCAGAGCAGAGATG
 CCGCAGGCCCGGCCCTTAGAAGGCGCATTACAGCCCCATCTCTTCAAGCCAGGCCTCCAC
 CAGGCTGACATCAAGCTGACCGTGTGGAAGGCTCTTCCGGAAGTTTGGCCAGCCCCG
 GAGCCTCTCAAGTTGGACCTGCCACTGCCACCCACTCCTGGAGCTCTCCAAGGGCAAC
 ACGGTGGTGCAGTGCAGGCTTCTGGCCAGCCGCGGCTTCTCTGCGGCCGCGCACTACTGGGAGGTG
 GTGGTGGGCAGCAAGAGCGACTGGCGCCTGGGGGTCAATCAAGGGCACAGCCAGCCGTAAG
 GGCAAGCTGAACAGGTCCCCGAGCACGGCGTGTGGCTGATCGGCCTGAAGGAGGGCCGG
 GTGTACGAAGCCTTTCCTGCCCCCGGTACCCCTGCCCCGTGGCCGGCCACCCCCACCGC
 ATCGGGCTCTACCTGCACTATGAGCAGGGCGAACTCACCTTCTTCGATGCCGACCGCCCC

8

FIGURE 1 (CONT'D)

GATGACCTGCGGCCGCTCTACACCTTCCAGGCCGACTTCCAGGGCAAGCTCTACCCCATC
CTGGACACCTGCTGGCAGAGAGGGGAGCAACTCGCTGCCCATGGTGCTGCCCCCGCCC
AGCGGGCCTGGCCCCCTCAGCCCCGAGCAGCCCCAAGCTGTAGGGCCGCCCGGAGTCC
TGCCGGCCCAAGGCCCATCCCGCGGGGCAACGGGGACTCGCGGGCTTCTGCTGGGTCC
CGCCTGAGGTGATATCGTCACTGTTTAGGAAGGTCTTCAGGCCTGTGTGTCCCTGGAACA
TGTAATGATAGGGAACAGGACCCAGTCCCTTTCCCTCAGCCAAGGGTGTATTTGTAAA
CTTCGCCCCCAGGCCTTGGCAGCCAGGGACACACTGAAATCCCATGGTTCTGCCACT
TGCTAACCATGCTATCTGCGCAGACGCTTCGAGGGCAGAAATAGTCCCATGTATACCTT
TTCATATTACTGTGAACCTTCACTACTATCAAGGATAATAAATTTGACATTATTTCTT
TCTCTTT

Gene 557. >ENST00000308082 cDNA sequence

CTGTGGAAGAGAAATGGCCCCAGTTTCATCACCTTCTCTAGCCCAGCCTCATCCCGCTCC
CAGACACCGGAGAGGCCAGCAAAGAAAATAAGAGAAGAAGAGATGTGTTCATCATTCCAGT
TCTTCAACTCCATTGGCAGCAGACAAGGAGTCCAGGGAGAAAAGGCTGCAGATACAACC
CCAAGGAAGAAACAAAACCTCGAATTCTCAGTCTACACCTGGCAGCTCTGGGCAGCGTAAG
CGGAAAGTTTCAGCTGCTGCCTTCTCGGCGAGGGGAACAGCTGACCTTGCTCCACCTCCC
CAGCTTGGCTATTGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCATTACAG
TGGTTCAACCAGGCCTTGGAGGACAAGAGCGATGCTGCCTCGAACTCTGTCACTGAGACC
CCACCTATCACTCAGCCTTCATTTACCTTTACCTGCCTGCTGCTGCACCTGCCTCCCCA
CCCACCTCCCTCCTGGCCCCAAGCACCAACCCACTGTTAGAGAGCTTGAAGAAGATGCAG
ACTCCCCCGAGCCTGCCACCTGCCCAGAATCTGCTGGAGCAGCAACCACTGAGGCCCTC
TCACCTCCAAAGACACCAACCTCCTACCCCCGCTGGGTTTATCACAGTCAGGGCCGCCA
GGGCTGCTCCCCAGCCCCCTCTTTGACTCCAACCCCCGACCACTTTGCTGGGGCTGATC
CCTGCTCCATCCATGGTACCAGCCACTGACACCAAGGCACCTCCAACCTTCAGGCAGAG
ACGACTACCAACCCCCAAGCCACATCTGCCCCGTCCCCCGCCCCAAGCAAAGCTTCCTG
TTTGGAACACAGAACACCTCACCTTCCAGCCCTGCCGCCCTGCTGCATCTTCAGCATCT
CCCATGTTCAAGCCCATTTCACGGCTCCACCCAAGAGTGAGAAGGAAGGCCCCACACCG
CCTGGCCCTTCAGTCTCAGCCACAGCGCCCTCCAGCTCCTCCCTCCCCACGACCACAGC
ACCACAGCCCCGACCTTCCAGCCTGTCTTTAGCAGCATGGGGCCACCTGCATCTGTGCC
TTGCCTGCTCCCTTCTTCAAGCAGACAACCTACTCCCGCCACTGCTCCCACCACAACCTGCC
CCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTGGCTCCCATCACCTCTGCCAGT
CCATCCAAGACTCTGCTTCAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTGAGCAGC
AGCAGTGTGAGTACCACGACCAGCACCGCCACTGCCGCCTCACAGCCTTTCTCTTCGGG
GCGCCCCAGGCCTCTGCTGCCAGCTTCAACCCGGCCATGGGCTCCATATTCAGTTCGGC
AAACCTCCTGCCTTGGCCACAACCAACACAGTCACCACTTCAGCCAGTCCCTGCCCACT
GCCGTGCCAACGGCCACAGCAGCAGCGCTGCCGACTTTAGTGGTTTTGGCAGCACCTC
GCCACCTCCGCCCCGGCCACAGCAGCCAGCCCACTCTGACGTTTCACTAACACGAGCACC
CCCACGTTCAACATTCCCTTTGGCTCAAGCGCCAAGTCCCCGCTCCCATCATATCCGGGA
GCCAACCCCCAGCCCGCATTTGGGGCCGCTGAGGGGAGCCACCGGGGGCCGCCAAGCCA
GCCCTTACCCCCAGCTTTGGCAGCTCTTTCACTTTTGGAACTCTGCAGCCCCGGCTGCT
GCACCCACACCTGCACCTCCGTCCATGATCAAGATCGTGCCTGCGCAGTGCCTACGCCC
ATCCAGCCTACCTTTGGCGGTGCCACGCACTCGGCGTTTGGGTGAAAGCCACGGCTTCG
GCCTTCGGCGCTCCCGCCAGCTCACAGCCCGCCTTTGGCGGCTCCACTGCTGTCTTCTCC
TTCGGTGCAGCCACAGCTCTGGCTTTGGAGCCACCAACCCAGACCGCCAGCAGCGGGAGC
AGCAGCTCGGTGTTTGGCAGCACAACACCATCACCTTCACGTTTGGGGGTTCGGCAGCC
CCCGCTGGCAGTGGGAGCTTTGGGATCAACGTGGCCACCCAGGCTCCAGCGCCACACC
GGAGCTTTAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCCACCCCTTCGCA
GGGGGCTTAGGTGAGAACGCCCTGGGCAACACCGCCAGAGCACACCGTTTGCTTCAAC
GTGGGCAGCACACTGAGAGCAAACCTGTGTTTGGAGGCACCGCCACCCCACTTTGGT
CTGAACACCCCTGCGCCTGGAGTGGGCACATCAGGCAGCAGCCTCTCCTTTGGGGCATCC
TCAGCACCCGCCAAGGCTTTGTTGGTGTGCACTTTGCGATCGGCGGCCCTTCATTT
TCCATTGGTGCGGGATCCAAGACCTAGGGGCTCGACAGCGACTGCAGGCCCGAAGGCAG
CACACCCGCAAAAAGTAGCCTTTGTCCCCTGTCCCTGTTCCCCCAACCCCTTCCCTAAAT
CTGGACCTTGGCACGTGCTAGAAAGAGCCTTGGACCTTCCAGCTGCGTAAAGCAAACCT

FIGURE 1 (CONT'D)

ACCCCGGATCTCTGGCTTCAGCCGCCAGGGGGCAGTGGCAGCCCTGGGGCCCTTTCCCTT
CTGGAGGAAGCA CAAGCCTCAGGGAAGGGGAAGCAGGATGCGGAGGGCCAAAGCCCGGA
CCTCTACTTGAACAGTTCCACTGGGGAGGCTGGAGAACTAAGGAAACACCTGTACATAGT
GTCCGCTGCCCTGACTCCCGCTTAGCGCACCCCTTAGGCAGGCGCCCCTTCCACCTTTCCC
CGAGAGCCGTCGTGCTGGAGGGGGCAGGGTCCAGCCCGCCTGGATCGGTGGTGTGCACC
TGATGGGATTTGGGAAATGGGCTATCCGTAAAGCTTTATCTTGCTTGGCTTAGCTGTGAG
AAGTGGTTCTCTTCTCTGGTCCCTTCTGGGACTCTGTTTCCCCATTTCTTGCTGCTGT
GTCCCTCACCGGTTCTTGCAGGATTCCTCTCTTTTAAATGCCCTTGAATCTAGCTTTG
CCTTGGAGACCCAGTGGGTGCTGCTCCTGCCATTTTCTTCTGCCAAGCCTGAATCAAT
GTTTTCTCTCCAACCTCTGCCAGTTTGGCCCCCTCAGAGCTTGGTGGCTCAAGACTGTTA
GCCTGGCAGAGCCAGGGGTGAAGGGAGAAGCTCTTGGAGCAGGCAGGATGCCACCGCTG
CTTCAGCTGCCTCCTCGCCAGCTACCTTTTGGCCCCATTGGGCCCTCGTCTGCCTCTCC
AGGATTGTATGTTTTCAAGCCTTGCCCTGTGTTCTTTGTCTGACGCTCTGTGTATTGCTC
TTTGAATCGAGTTTGGAGGAAGAGTTGAGTTGTATGAGTGGCGGCATGTTGGTAGTGCCG
GACTTCTGTTTTCAAGTTTTCTGGGGCCTCGCTAATTGAATGTGGAAAGTAGCACCCTT
GACGGCTACAAGTGCAGCTCCTGAATTTTCCCATGGTGTCTGACTTCAAGGGCTGGCA
GCCAGGGAGAATGGGCCCAGGGGAAGCAAAGACCTCTTCCCTCTGCCGTTTCTGTCCCAC
TTAACTGACCTCACTGGAGGCTACATCACCCAAAGTAGATGTTAGAAAACCTAAATTAAT
GAACCATATTTTTTAAAATCCTATTTTTTCCCAAACAGGGCCCTCTGCAGCCAGCCTTTCC
TTCCGTCCTTCTGAAACCAATACCCAGGCCCAAGCGCCTTGCTGCCACGCCCAACCTC
TTTGGGAGAAGTATGAATGCGTGTGTCTAAATT

Gene 558. >ENST0000310326 cDNA sequence

AAAGGCGCGCGGGAACATGGGGCTGTATGCTGCAGCTGCAGGCGTGTGGCCGGCGTGGA
GAGCCGCCAGGGCTCTATCAAGGGGTTGGTGTACTCCAGCAACTTCCAGAACGTGAAGCA
GCTGTACGCGCTGGTGTGCGAAACGCAGCGCTACTCCGCCGTGCTGGATGCTGTGATCGC
CAGCGCCGGCCTCCTCCGTGCGGAGAAGAAGCTGCGGCCGCACCTGGCCAAGGTGCTAGT
GTATGAGTTGTTGTTGGGAAAGGGCTTTTCGAGGGGGTGGGGGCCGATGGAAGGCTCTGTT
GGGCCGGCACCCAGGCGAGGCTCAAGGCTGAGTTGGCTCGGCTCAAGGTTTCATCGGGGTGT
GAGCCGGAATGAGGACCTGTTGGAAGTGGGATCCAGGCCTGGTCCAGCCTCCAGCTGCC
TCGATTTGTGCGTGTGAACACTCTCAAGACCTGCTCCGATGATGTAGTTGATTATTTCAA
GAGACAAGGTTTTCTCCTATCAGGGTGGGGCTTCCAGCCTCGATGACTTACGAGCCCTCAA
GGGGAAGCATTTTTCTCCTGGACCCCTTGATGCCGGAGCTGCTGGTGTTCCTGCCCCAGAC
AGATCTGCATGAACACCACTGTACCGGGCCGGACACCTCATTCTGCAGGACAGGGCCAG
CTGTCTCCAGCCATGCTGCTGGACCCCCCGCCAGGCTCCCATGTATCGATGCCTGTGC
CGCCCCAGGCAATAAGACCAGTCACTTGGCTGCTCTTCTGAAGAACCAAGGGAAGATCTT
TGCTTTTGACCTGGATGCCAAGCGGCTGGCATCCATGGCCACGCTGCTGGCCCGGGCTGG
CGTCTCTTGCTGTGAACTGGCTGAGGAGGACTTCTTGGCGGTCTCCCCCTCGGATCCACG
CTACCATGAGGTCCAACATCCTGCTGGATCCTTCTGCACTGGCTCGGGTATGCCGAG
CAGACAGCTGGAGGAGCCCGGGGCAGGCACACCTAGCCCGGTGCGTCTGCATGCCCTGGC
AGGGTTCCAGCAGCGAGCCCTGTGCCACGCGCTCACTTTCCCTTCCCTGCAGCGGCTCGT
CTACTCCACGTGCTCCCTCTGCCAGGAGGAGAATGAAGACGTGGTGCAGATGCGCTGCA
GCAGAACCCGGGCGCCTTCAGGCTAGCTCCCGCCCTGCCTGCCTGGCCCCACCGAGGCCT
GAGCACGTTCCCGGGTGCCGAGCACTGCCTCCGGGCCTCCCTGAGACCACACTCAGCAG
TGGCTTCTTCTGTTGCTGTAATTGAACGGGTGAGGTGCCAAGGTGAGTGAGTGGGGGCGT
GCTTGGGAGGCGCAGGATGGCACCGGCACATCTAACATCTACACTTCTCTAGCTCAGCCT
CACAGGCCAAAGCATCAGCACCAAGACGCACACCCAGCCCAGCCCCAAAGAGAAAGAAGA
GACAGCAAAGAGCCGAGCCGGTGCTTGACACCGCCTTGACATAGCAGAGGCTCCGGG
CTGACTCCTTCTGGTGGGAAAGGAAGATGCCTGTCTCTCCGTGGAGGACCTGGGCCC
TCACCGCAGGAAGCAGTTTGGGTTTTGAAAGGTTATTGGGTCCCTTCTTGGGCTGTGTT
CTTGCTGGTGAGCAAAGTGTTGCCTGCAAAAATAAAATGCAGAACGTACTCT

Gene 559. >ENST0000257657 cDNA sequence

GTGTGTGTGTGTGTGTGTGTGTGTGTGTATCCCTACAGAGAAATGGAAAAGAAAAA
ATTGTCTTGGAACAAGAAGTCAAAACGCTAAATGACTCCCTAAAGAAAGTTGAAAAAAG
GTTAGTGCTATAGTGGATGAGAAGGAAAATGTAATAAAGGAAGTTGAAGGCAACGAGCC

FIGURE 1 (CONT'D)

TTACTTGAAATCAAAGAACGAGAACATAACCAATTGGTCAAGCTATTGGAATTAGCCAGA
GAGAATGAAGCAACTTCATTAAGTAAAGAGGGATCTTGGATCTCAATTTACGCAACAGT
CTCATTGACAAGCAGAACTACCATGATGAACTTTCTCGTAAGCAAAGAGAGAAAAGAACGA
GATTTTCGAAATTTAAGAAAGATGGAAGTCTTGGAAAGTGTCTGGGATGCACCTTAGG
CAAACTCAAGCACTGCATCAAAGGCTTCTATTAGAGAAAATTATATCAGAAATGGAGTCT
AAGTTAGTAGAACAACTTGCAGAAGAAAACAAGCTTTTAAAGGAGCAAGAAAACATG
AAAGAGCTAGTAGTCAACCTTCTCCGCATGACTCAAATCAAATTTGATGAAAAGGAACAA
AAGTCCAAGGATTTCTGAAAGCTCAGCAAAAATACACCAACATTGTTAAAGAAATGAAA
GCAAAGGATCTTGAAATCAGGATACACAAGAAGAAAAAATGTGAAATTTATCGGAGACTG
AGAGAGTTTGCTAACTGTATGACACCATTGAAATGAAAGAAAACAATTTGTTAACTTA
CTCCACAAAGCTCATCAGAAAGTAAATGAAATAAAAGAAAGGCATAAAATGTCATTAAAT
GAACTTGAAATTTCTGAGAAATAGTGCCGTTAGTCAAGAAAGAAAGCTACAAAATTCATG
CTGAAACACGCCAACAAATGTTACCATCAGAGAGAGCATGCAAAACGATGTGCGCAAAATT
GTATCAAACTTCAGGAAATGAAAGAAAAGAAGGAAGCCAGTTAAATAACATTGACAGA
CTTGCCAACACGATCACAATGATCGAAGAGGAGATGGTGCAGCTTCGCAAAAGATACGAA
AAAGCTGTTTCAGCATCGAAATGAAAGTGGCGTTTCAGCTGATAGAGCGGGAAGAAGAAATA
TGCAATTTTTTATGAAAAAATAAATATCCAAGAGAAGATGAACTAAATGGAGAAATTGAA
ATACATCTACTGGAAGAAAAGATCCAATTCCTGAAATGAAGATTGCTGAGAAGCAAAGA
CAAATTTGTGTGACCCAGAAATTACTGCCAGCCAAGAGGTCCCTGGATGCCGACCTAGCT
GTGCTCCAAATTCAGTTTTTCACAGTGTACAGACAGAATTAAAGACCTGGAGAAAAGCTTC
GTAAAGCCTGATGGTGAGAATAGAGCTCGCTTCTTCCAGGGAAAGATCTGACCGAAAAA
GAAATGATCCAAAAATTAGACAAGCTGGAAGTCAACTGGCCAAGAAGGAGGAGAAGCTG
CTGGAGAAGGATTTTCATCTATGAGCAGGTCTCAGGCTCACAGACAGGCTCTGCAGCAAA
ACTCAGGGCTGCAAGCAGGACACACTGCTCTTAGCCAAGAAGATGAATGGCTATCAAAGA
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GCCCTAACCATTGAACTCCAAAAGGAAGTCAGGGAGAAAGAAGACTTCATCTTCACTTGC
AATTCAGGATAGAAAAAGGTCTGCCACTCAATAAGGAAATTGAGAAAGAATGGTTGAAA
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GAAGCAGATAATCGCCAGCTGCCCAATGGTGTGTTACACAAGTGCAGAGCAGCGTCCGAAT
GCCTACATCCAGAAGCAGATGCCACTCTTCTTTGCCAAAACCTTATGGTGCTTTGGCT
CCTTTTAAACCCAGTGAACCTGGAGCCAATATGAGGCACATAAGGAAACCTGTTATAAAG
CCAGTTGAAATCTGAATATGTGAACAAATCCAGGCCTCTCAAGGAAAAGACTTCAACCAG
GCTTCCTTGTTACCCACAGGTGAAAAATGTGAGCATAATACTTCTAATATTATTGATAAGT
AAGGTAACCACAATTAGTCAGCAACAGAGTACAACAGGGTTTTCTATTTACCCACCAACTA
CTATACCTTTTCATGACGTTGAATGGGACATAGAACTGTCCTACATTTATGTCAAAGTATA
TATTTGAATCGCTTATATTTTCTTTTTCACTCTTTATATTGAGTACATTCCAGAAATTTG
TAGTAGGCAAGGTGCTATAAAAATGCACTAAAAATAAATCTGTTCTCAATGAAGTACGGA
AATGG

Gene 560. >ENST00000285871 cDNA sequence

ATACCAAGGACGCGACTTCTTGTTTGGAGAGGGTGGAGCTTTGGAGTGAGACCCAGGAGG
CCAAATCCCAAAGAGAAAAATAGGAGCCTAAATAAGGATCAGGACCAAGGGAAGGGAATC
GTGAAAAATGGAAGACAGTAGCACAGACACAGAAAAAGAAGAGGAAGAGGAGAAAGATGA
AAAGGATCAAGAGCCCATTTATGCCATAGTGCCCAACAATTAACATTCAAGATGAGCGGTT
TGTTGATTTATCTGAACTCCAGCTTTTCATTTTTCTGCATGAGTTACATGCTATGGGAAA
ACTTCCTGGAACCAGAATGGCAGCGTTAAAAGCCAAGTATACCTTGCTGCATGACGCCGT
GATGAGCACACAAGAGTCAGAGGTCCAAGTCTACAGAATGCCAAACGTTTCACTGAGCA
AATACAACAGCAGCAGTTTCACCTGCAGCAAGCTGATAATTTTCCAGAAGCATTCTCCAC
GGAGGTCTCCAAAATGAGAGAACAACTTCTCAAGTATCAAAATGAATATAATGCAGTGAA
GGAAAGAGAGTTCCATAATCAGTACAGATTAAATAGCTTAAAGGAAGAAAAAATCATCAT
AGTAAAAGAATTTGAGAAGATAACAAAGCCAGGAGAAATGGAGAAGAAGATGAAAAATATT
GAGAGAAAGCACTGAAGAATTACGTAAAGAAATAATGCAGAAGAAATTAGAAATTAATAA
TTTACGAGAAGATTTGGCATCTAAACAAAAGCAATTATTAAGAGAGCAGAAGGAACTAGA
AGAATTGTTGGGACATCAGGTGCTCCTAAAGGATGAAGTGGCCCAACCATCAAACCATTC
AGTACAAATTGGAAGAGATAGAAAAATAACACGCAAAAAGTAGAAATGGAAAAGAA

FIGURE 1 (CONT'D)

AAAAATTGTCTTGGAACAAGAAGTCAAAACGCTAAATGACTCCCTAAAGAAAGTTGAAAA
 CAAGGTTAGTGCTATAGTGGATGAGAAGGAAAATGTAATAAAGGAAGTTGAAGGCAAACG
 AGCCTTACTTGAAATCAAAGAACGAGAACATAACCAATTGGTCAAGCTATTGGAATTAGC
 CAGAGAGAATGAAGCAACTTCATTAAGTAAAGAGGGATCTTGGATCTCAATTTACGCAA
 CAGTCTCATTGACAAGCAGAACTACCATGATGAACTTTCTCGTAAGCAAAGAGAGAAAGA
 ACGAGATTTTCGAAATTTAAGAAAGATGGAAGTCTCTGAAAGTGTCTGGGATGCACT
 TAGGCAAACCTCAAGCACTGCATCAAAGGCTTCTATTAGAGATGGAAGCTATCCCCAAAGA
 TGATTCTACATTATCTGAGAGAAGGCGAGAGCTTCACAAGGAAGTTGAAGTAGCTAAGAG
 GAATTTGGCCCAACAGAAAATTATATCAGAAATGGAGTCTAAGTTAGTAGAACAACAACCT
 TGCAGAAGAAAACAAGCTTTTAAAGGAGCAAGAAAACATGAAAGAGCTAGTAGTCAACCT
 TCTCCGCATGACTCAAATCAAATTTGATGAAAAGGAACAAAAGTCCAAGGATTTCTTGAA
 AGCTCAGCAAAAATACACCAACATTGTTAAAGAAATGAAAGCAAAGGATCTTGAAATCAG
 GATACACAAGAAGAAAAAATGTGAAATTTATCGGAGACTGAGAGAGTTTGCTAAACTGTA
 TGACACCATTGAAATGAAAGAAACAAATTTGTTAACTTACTCCACAAAGCTCATCAGAA
 AGTAAATGAAATAAAAGAAAGGCATAAAATGTCATTAAATGAACTTGAAATTTCTGAGAAA
 TAGTGCCGTTAGTCAAGAAAGAAAGCTACAAAATTCATGCTGAAACACGCCAACAAATGT
 TACCATCAGAGAGAGCATGCAAAACGATGTGCGCAAAATTTGATCAAACTTCAGGAAAT
 GAAAGAAAAGAAGGAAGCCAGTTAAATAACATTGACAGACTTGCCAACACGATCACAAT
 GATCGAAGAGGAGATGGTGCAGCTTCGCAAAAGATACGAAAAGCTGTTGAGCATCGAAA
 TGAAAGTGGCGTTTCTGCTGATAGAGCGGGAAGAAGAAATATGCATTTTTTATGAAAAAAT
 AAATATCCAAGAGAAGATGAAACTAAATGGAGAAATTGAAATACATCTACTGGAAGAAAA
 GATCCAATTCCTGAAAATGAAGATTGCTGAGAAGCAAAGACAAATTTGTGTGACCCAGAA
 ATTAAGTCCAGCCAAGAGGTCCCTGGATGCCGACCTAGCTGTGCTCCAAATTCAGTTTTT
 ACAGTGTACAGACAGAATTAAAGACCTGGAGAAAAGCTTCGTAAAGCCTGATGGTGAGAA
 TAGAGCTCGCTTCCTTCCAGGGAAAGATCTGACCGAAAAAGAAATGATCAGAAAATTAGA
 CAAGCTGGAACCTACAACCTGGCCAAGAAGGAGGAGAAGCTGCTGGAGAAGGATTTTATCTA
 TGAGCAGGTCTCCAGGCTCACAGACAGGCTCTGCAGCAAACTCAGGGCTGCAAGCAGGA
 CACACTGCTCTTAGCCAAGAAGATGAATGGCTATCAAAGAAGGATCAAAAATGCAACTGA
 GAAAATGATGGCTCTTGTTGCTGAGCTGTCCATGAAACAAGCCCTAACCATTGAACTCCA
 AAAGGAAGTCAGGGAGAAAGAAGACTTCATCTTCACTTGCAATTCAGGATAGAAAAAGG
 TCTGCCACTCAATAAGGAAATTGAGAAAGAATGGTTGAAAGTCTTCGAGATGAAGAAAT
 GCACGCCTTGGCCATCGCTGAAAAGTCTCAGGAGTTCTTGGAAGCAGATAATCGCCAGCT
 GCCCAATGGTGTGTTTACACAACCTGCAGAGCAGCGTCCGAATGCCTACATCCCAGAAGCAGA
 TGCCACTCTTCCTTTGCCAAAACCTTATGGTGTCTTTGGCTCCTTTTAAACCCAGTGAACC
 TGGAGCCAATATGAGGCACATAAGGAAACCTGTTATAAAGCCAGTTGAAATCTGAATATG
 TGAACAAATCCAGGCCTCTCAAGGAAAAGACTTCAACCAGGCTTCCTTGTACCCACAGGT
 GAAAAATGTGAGCATAATACTTCTAATATTATTGATAAGTAAGGTAACCACAATTAGTCA
 GCAACAGAGTACAACAGGGTTTCTATTTACCCACCAACTACTATACCTTTTATGACGTTG
 AATGGGACATAGAAGTGTCTTACATTTATGTCAAAGTATATATTTGAATCGCTTATATTT
 TCTTTTTTCACTCTTTATATTGAGTACATTCCAGAAATTTGTAGTAGGCAAGGTGCTATAA
 AAATGCACTAAAAATAAATCTGTTCTCAATG

Gene 561. >ENST00000257626 cDNA sequence

ACAGAGCCTGGGCTCACTGACCAGCCAGGAGGAACCAGCCTCTGCCTTACCAGGCCATC
 AATCCCTGAAGCCAGGGGATCTGCCCTGCCAGACACGGGCATGTGTGTGTGTGTTT CAGG
 CTTATCATCCTTGCAATTGCTGGGGGTTTCGCAACACGGGGAACGTTGCTGGTCTGGCTGA
 GGTTCCTGTGCTGCCACCCCTCCTGCCCTGCTTATGGAGCTACTGTATGTGTGAGGGCCG
 TTTGCATCCTGTTACTAGTCAGTCTATCTTAATGCACTTTAGGAACTCTTCCCTTTTCT
 TGCACGTGCTTTGCGTATACTAGTTCCCCATAAAGAATGTCACTGCCTGAAACAGAACAT
 TCTGTGAAATGCAGGGCTGTTGGATTACATGTTAAATTGTTTCATCTCAATCACGAGGG
 TTGTGTAGGATCCAGGGAAGATTTATCCCGGGGGTCAAGAGATATCGATGCCCTCCCAG
 AAGGAGTTGCCAGCCCACTGAGCAGGGTGGTTCTGCCCTCTTGCTGGCACTGGATCTCA
 AGTATTTAAGAAGAAAAGAATGGAATACAAAGAAGTTAGAAGCGCTTTGGGGCAGATTTT
 CCAGCAAGACTGGGTTTGTCTGCCCCCTAGGGCCACTACACTGTAGTGTGATTGCAAAATC
 ATGGTGGAGAAGGTACCATTTGATTTAACATATCACTTTTCCACCTTTACCTAACTACCT

FIGURE 1 (CONT'D)

TTGTAGTCTGATAACTTGTGCCAGTTAGTATTATTTGCTGCAGTAATTGACTGGCCCCCT
CAGCTCAGTAACTCCCAAGGCTACTGAACTACAGGGTTTCAGAAAGTAGAAGGGAGCCATG
CAGTCCTTCCACCGAGCGCTGTTCCCTCAATTTATGACCCAGAAGGGTTAAGAGAAGGC
CCAAGTCCCTCTGTTTCCAGTGGAGCAGAGGTTCTTAGCAGTGAGTTTTAGTGTTGAACA
AAAATCAAAGCTAGAGCCTACTGGGGTTGAGGAATGTGTTGGTTTCTTTCTTTCTCGGTC
ATTCCCTGTTTTCACACAGCTCTGATAAGTTCACCTTGTAGGACTAGGTCACACTTAGGTG
ATGAAAAATTTTCATCCTGTGTTATGTTTTCTCAATGACTCAGAGAAGGGAAACCCAGGC
TGATTCTTCTTCCCTTCTAACCCATCTCCTGAAAACCTGCTCAGAGCCTAACTATTGCTCTG
TTTCATTTTCAGGGCCAAGATTAACACCCCTCCTGCAGGAGGAAGAAGCCACCAGCGGCT
GCTCATGGGGCTGATGGTGTCTGAGCTAAAAGACCATTTTTTGAGACACCTACAGGGTGT
AGAAAAGAAGAAAATTGAACAGATGGTCTGGACTACATTTCAAACCTGCTGGATCTCAT
TTGCCACATCGTAGAAACCAATTGGAGGAAACATAATCTTCATTCTGGGTTCTCCACTT
CAATAGTCGTGGCAGTGCTGCTGAATTTGCAGTTTTTTCACATCATGACCAGGATTCTGGA
AGCTACAAACAGTTTGTTTTTTACCTCTGCCTCCTGGTTTTTCACTCTGCACACCATCCT
CGGGGTCCAGTGCTCCTTTTGCATAACCTGCTGCATTGCATTGACAGTGGAGTGTGCT
TCTCACTGAAACAGCTGTCTATAAGGCTCATGAAAGATCTGGATAATACAGAGAAAAATGA
AAAACCTGAAATTTCAGTATCATTGTGCGGCTTCCCTCCGCTTATTGGGCAGAAGATTTGTAG
ACTTTGGGATCATCCTATGAGTTCTAACATCATTTTCGCGGAACCAAGTACGCGACTGCT
TCAGAACTATAAGAAAACAGCCTCGGAATTCTATGATTAACAAGTCATCGTTCAGTGTA
ATTTCTGCCTCTGAACTACTTCATTGAAATTCTGACAGATATAGAGTCCTCCAATCAAGC
CCTGTATCCTTTTGAAGGACATGACAATGTGGATGCAGAATTTGTAGAGGAAGCAGCTCT
GAAACACACCGCGATGCTTTTAGGCTTATGAAAAAGAAAACGCAATTGGATCTGCTGCTG
CCATTTTAAATCTTGCTCATTAACTTACTCCTTTGAGAATTCTTTAAACAATATTTAAAAT
TGGTAACAAAAATAGTTTtagccataattgTTTtagccatgtgagTTTCAGGTTGGTACACG
TTCAGACAGAACTGCTGTATCACATTCCAATTTTGAATAGCCAGTGAGCAATCAAGTGTA
GAGAAATGATAAATGGCCTAAGAAGGCATACAGTGGCATAAACGATGCTCTTCTTAGTAG
CTTAATAGGCCACAAGCTAGTTTCTGTTGCACTCTGAAATAAAATATGCTTTAAAAATGT
AGGGAAAGTGTCTTAGAAAAGCAAAAACCTAGGTGTGTCTTGAATAATAGGCATAAAAA
TTAAATGTTACATAAGAACACTATTTGGAAAGAGGGTCTTTTAAAAACTGAATTTGTAC
TAAATCAGATTTGCCATGTCCAGTACAGAATAATTTGTACTTAGTATTTGCAGCAGGGTT
TGTCTTTGTGAATTCAGATGAAACATATTTATTTTTTTTTTATTTATAAAAGGTTGATTTA
GGAATATTTTGTGTCAGTCATTAAAAAACCTG

Gene 562. >ENST00000334003 cDNA sequence

TCAGATGTTTTAGAAAACGATTATGAGAGCTTACATGTATTAAATGTTGAAAGAAATGGA
AATATTATTTATACCTATAAGGATGATAAGGGAAATGTCGTCTTTGGATTATATGATTGT
CAAACAGACAAAATGAGCTTCTATATACCTTTGAGAAAGACTTGCAAGTTTTTCAGTTGC
TCTGTCAACAGTGAAAGGACTTTGCTTGCTGCAAGTTTtagttcagTCTACTAAAGAAGGA
AAAAGGAACGAACTTCAACAGGATCAAAGTGCTTGACTTTGTTGGTTGAAATCCACCCT
GTTAAACAATGTGAAGGTTCTAAAGGCTGTGGATAGCTATATTTGGGTTTCAGTTTCTCTAC
CCACATATTGAAAGTCATCCTCTTCCAGAGAACCATCTGTTACTGATTTTCAGAAGAGAAA
TATATTGAAACAATTTTCGTATCCATGTCGCCCAAGAAGATGGAATAGAGTGGTGATTAAA
AATTCTGGCCATCTCCAAGAGACAGAATAGCTGAGGATTTTCGTTTGGGCTCAGTGGGAT
ATGTCAGAACAGAGATTATATTACATTGACCTGAAGAAATCAAGGAGTATCTTAAAATGT
ATCCAGTTTTATGCTGATGAGAGCTATAACTTAATGTTTGAAGTACCCTTGGACATATCA
TTAAGCAACTCAGGATTTAACTTGTCAACTTTGGATGTGATTATCATCAATACCGAGAT
AAATTTTCCAAACACCTGACTCTGTGTGTTTTTACCAACCATAACAGGAAGTTTGTGTGTA
TGTTACAGCCCGAAGTGTGCCTCTTGGGGACAAATCACATATTCAGTGTTTTTACATTCAT
AAAGGACACAGCAAGACCTTCAACACTTCTCTTGAGAATGTTGGGTCAACATGACAAAG
GGCATTACTTTTCTCAACCTTGACTATTATGTGGCTGTTTACTTACCTGGTCATTTCTTC
CACCTACTTAATGTTCAACATCCAGACCTGATCTGCCACAATCTCTTTCTGACAGGAAAT
AATGAAATGATTGATATGCTACCTCATTGCCCTTTACAGTCATTGTGAGGGTCCCTGGTA
TTGGATTGTTGTTCTGGAAAGCTCTATAGAGCACTGCTCAGCCAGTCGTCTTTATTACAG
CTTCTGCAGAACCTTGCTTAGACTGTGAGAAGATGGCTGCGTTGCACTGCGCGCTCTAC
TGCGGTCAAGGTGCGCAGTTCCTGGAAGCCAGATTATTCAGTGGATTTCTGAGAATGTC

FIGURE 1 (CONT'D)

TCTGCCTGCCATTCAATTTGACCTCATTGAGGAATTTATAATTGCTTCTTCATACTGGAGT
GTATATTGAGAGACAAGTAACATGGACAACTATTGCCACATTCCTCAGTGCTCACTTGG
AATACAGAAATTCTTGAATAAATCTTGTGACAGAAGACATTGCATTGCCTCTTATGAAG
GTGCTCAGCTTTAAGGGCTACTGGGAAAACTGAACTCCAACCTAGAATATGTTAAGTAC
GCCAAGCCACACTTCCACTATAACAACAGTGTGGTCAGGAGAGAGTGGCACAACCTGATC
TCTGAAGAGGTATGAGTGGGTGAGTGAACAAGCCAGCAGCGAGGCATAGTGGACTGG
ATCCAGGTGATGCCTTTAAATCATAAGGCTGGCTTCCATGTGCAGCACTCTTCCCAATTG
CCAGGGACTTGATCATTGTCTTACTGATCTCAATGGGCAGAGATGCTTCTATGATCTCT
GTTCTCCTAGGGAGGAACTGAAAAGCAGAAAGTTTAAGGGGACACACAGCACATTGATA
GTAGAAGTATGATTAATATCCATGTCTCAGATGTGTTCTCAGGTTACTTATGTAGTTAAA
AATTGATATTAATAAATCTAGGTGTTCCCACTTAGTGGTCATTAGGGGTTGGGGTAGTT
GGAGGGAGAATAGTGGACGTGACTCACTGTCCAGGGGTGACCCAGGGAAATCTTTGGGGG
TGATCGAAGACTTCTATGTGTTGATTGTGGTGGTACATTGTGGGACATGAATCTAAACAT
GATAAAATGACATAGAATGACACACACATTGTGCCAATGTCAATTTTTGATTTTGATA
TTGTGCTCTAGTTAGGTAAGATATAAGCACTGAGGAGACTGGGTGGAGGGTACATTGCAT
CTCTCTCTAGTATCGCTGCATGTAGATTAGTGTTGTTGTGTGTAGTATATAGTTGACTCG
CAGTTTCCTGTGAATCTGTAATTGTTTCAGAATAAAATATTTCTTAAACCTTT

Gene 563. >ENST00000334955 cDNA sequence

ATGGCGGAACCGCCGAGCCCCGTGCACTGTGTGCTGCGCGGGCCCCACCGCCACCGTC
TCGGAGAAAGAACCCTTTGGCAAGCTGCAACTCTCCTCCCGGGACCTCCGGGTTCTCTG
TCCGCCAAGAAGGTCCGGACTGAGGAGAAGAAGGCACCGCGGAGAGTGAACGGAGAAGGG
GGCAGCGGCGGGAAACAGCAGGCAGCTGCAGCCGCGGCAGCACCTTCGCCTCAGAGCTAT
GGCAGCCCCGCGTCTTGGAGCTTTGCCCTCTGTCTGCTGCTCCCTCCCGCTCCTCTTCT
CGGAGCAGTTTCTCTTTCTCCGCTGGCAGCGCCGTTCCCTCCTCAGCCTCCGCTTCCTTG
TCTCAGCCGGTGCCGCGCAAACTGCTGGTCCCTCCTACGCTGCTGCAGCTCAGCCTCAC
CATCTCCTCCTGCCCCGCCCGCCGCGCTGCCTCGGCTAACGCCAAGTCGCGCAGACCT
AAGGAGAAGCGGGAGAAGGAGAGGAGGAGGCACGGTCTCGGTGGGGCCCGAGAGGCCGGC
GGGGCTCCCGGGAGGAGAACGGGGAGGTGAAGCCGCTGCCCCGAGATAAAATCAAAGAC
AAAATTAAAGAGAGAGACAAAGAAAAAGAGAGAAAAAAGAAA

Gene 564. >ENST00000257663 cDNA sequence

CTGAGAGATCCTCTACCGCAGTCGTTTGAGGAGGCGGAAGTCTTAAATTAT
CATGTGACGGGTTCTGGATTTAATGGGGGAAAAGGGCGGAAAAGGACAAGGATCCAAAC
TGGCGAATTTGCTGATCTTCGCGTCCCTCTCCGCTTTCCGGCCGGCAGCGCTGCCAGGGT
ATATTTCTTTTTTCCGATCCTGCAACAGCCTCTTTAACTGTTTAAATGAGAATGTCCT
TGGCTCAGAGAGTACTACTCACCTGGCTTTTCACTACTCTTCTTGATCATGTTGGTGT
TGAACTGGATGAGAAAGCACCTTGAACTGGTTCCTCATATTCAATCCAGTCTGGATAT
TTGATACTATCCTTCTTGTCTGCTGATTGTGAAAATGGCTGGGCGGTGTAAGTCTGGCT
TTGACCCTCGACATGGATCACACAATATTAAAAAAGCCTGGTACCTCATTGCAATGT
TACTTAAATTAGCCTTCTGCCTCGCACTCTGTGCTAAAAGTGAACAGTTTACTACCATGA
ATCTATCCTATGTCTTCATTCCTTTATGGGCCTTGTGCTGGCTGGGGCTTTAACAGAACTCG
GATATAATGTCTTTTTTGTGAGAGACTGACTTCTAAGTACATCATCTCCTTTCTATTGCT
GTTCAACAAGTTACCATTAAGTGTCTGAATCTGTCAAGCTTCAAGAATACCAGAGAAC
TGAGGGAAAATACCAAATGTAGTTTTATACTACTTCCATAAAACAGGATTGGTGAATCAC
GGACTTCTAGTCAACCTACAGCTTAATTATTGAGTATTGAGTATTGAGATCCTTATTA
TCTCTATGTAAATAAAGTTTGTGTTTGGACCTC

Gene 565. >ENST00000333674 cDNA sequence

TTTAGTACAGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATA
TGCTCTGGGCCAGTGGTACTGAGTCTAAGCACTGCAGTGAAGGAGTTAGTAGAAAAAGT
CTGGATGCTGGTGCCACTAATATTGTGCTCTCTGTCTCACTGTCTTTTAGATGCCAAACC
TTAGATTTTATGATGACTCCTCAACCGTTTAGATCTTGGTTATCTCAGAGGGATCGTCAG
CTTTTAAAGAAAGTTTGGAGAGAAAAGCAAGTGAAGAAAAGCATAGTCAATGCTCAACAT
CACGGGTCTCTCACTGAAACACACACCGGTATTCTCTCACAGCGATGTCAACATTTCTACC
TGCCACGCATCGGTGAAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATC
CAGAAAACCCCTACCCCCACCCAGAGGGACACAGTCAGCGTGAAGCAGTTATTTTCT

FIGURE 1 (CONT'D)

ACACTACCTGTGCGCCATAAGGAATTTCAAAGGAATGTTAAGAAGGTACACAATATAAAA
AGGGTGGTGGTGCCGAGGAAAGGGTGGAACTGGAAACACTCCTGGTTTCTTACTTTTCT
CCAAGGACTCCTAGAAGGACCCACCCCCCTCCCCCACCCCTGCTCCCAGGAGGACAAC
GTGATCACTGTATTAGCTCCATCAAGAATGGTCCAGGTTCTTCTAGATGA

Gene 566. >ENST00000332397 cDNA sequence

AAAAGGAAGAAGGAGTGGTCAGATGAATCTGAGGAGGAGCCGGAGAAGGAGCTCGCCCCCT
GAGCCTGAGGAGACCTGGGTAGTGGAGATGCTGTGTGGGCTCAAGATGAAGCTGAAGCAA
CAGCGAGTGTCACCCATCCTCCCTGAGCACCACAAGGACTTCAACAGTCAGCTTGCCCCCT
GGGGTAGATCCCAGCCCCCGCATAGGTCCTTTTGCTGGAAAAGGAAGAGGGAGTGGTGG
GACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCCCCCTGAGCCTGAG
GAGATCTGGGTGGTGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGACGGCGAGTG
TCGCTCGTGCTCCCTGAGCACCACGAGGCCCTTCAACAGGCTGCTTGAGGATCCTGTCAAT
AAAAGATTCTGGCCTGGGACAAAGATCTGAGGGTGTGGACAAGTATCTCCTGGCTATG
GTCATAGCGTATTTTCAAGCCGGGCGGCCTCCCCTCCTGGCAATACCAACGCATTCAATTC
TTCCTGGCTCTCTACCTGGCCAATGACATGGAGGAGGACGACGAGGACCCCAACAAAC
ATCTTCTACTTCTGTATGGGAAGACCCGCTCTCGCATACCTTGGTCCGTAAACCGTCGG
TTCAGTTATGCCGTTGCATGAACCCGAGGGCCAGGAAGAACCGCTCTCAGATAGCCCTG
TTCAGAACTTCGGTTCCAGTTCTTCTGTTCCATGAGCGGCAGGGCTTGGGTTTCCCGG
GAGGAGTTGGAGGAGATCCAGGCTTATGACCCAGAGCACTGGGTGTGGGCGCGAGATCGC
GCTCGCCTTTCTAGAGCTCCAGGGACCGTGGAGGCCTGAGGTATCGGCCTGAGAGAAG
AACACCGGACCCACGGGAGATGTGGATTTTTCAGCAGGAACCTTATTCCAATGCTAATGGC
AGTCAACAGGAAAGAGGAGAGGAACCATTTGTGCAGATCATCTAGAAGAACCTGGACCAT
TCTTGATGGAGCTGAATACAGTGATCACGTTGTCTCCTGGGAGCAGGGGTGGGGGAGG
GGGGTGGGGTCTTTCTAGGAGTCTTTGGAGAAAAGTAAGAAACAGGAGTGTTCAGTT
CCACCCTTTCTGCGGCACCAACCACTTTTATATTGCTGAATGCCAACCTCCCTGGGG
CGGAACCTGAGGTCTGTTTCTTACGGACTTGGTTGCCACAGTCCAGGAGCATTTGAAGG
CACAATGCAGGGGCTCAGATTGGGCACAGAATCTTTTGTGAAATATCAGTGCCACAGATT
GTAACAGATAGCTTCATGCACACTCTGCATTTTATTGGTTTGTGGAAAATGTTGGCCA
TTGAATTATTTCATAGATTTATTTCAAATAGTTTGGAAATTGTTGTACTTTTGAAAACATG
CTGTTCTCTGTAGTTTTTTGATGAGAGTTATAGTTGTTATATATACATAAAGATAATTTTC
TTTTTCAATTTTAAAGAGACAATTCTTTTTATCCTAAATATTTTATTATCTTTAAATTTGTT
TCTGTATTATTATATGTGCTCCTGAAGTGAGCACTCTTTTTATCTATGATATTTCCATAA
TAATCTCTTCTATTTATAGCTATTGGTAGTTCCCCACCAGAAAAAACATAATTCTGGTG
ATAGAAATTTTATTTGCTGTTTAGGTCTGTGACTGAATTGTGAGAATTCAAGTTGTGATT
TTTAACATGTCTCAGATATATATACTAACACGTCTAATATATACTATCTAATTTATTGGT
TTATTTTGA AAAACATGGGTATAGAATTATTTAAATATTATTTTATTGAAATATTA
AATATATTTATTTATTTGAATATTATTACTTGAAATATTATTTTAAATATTTTGGAAATA
CTGGTATTTTGAATAGATGCTGTTTCTATAAAGCTGTGTGATGGGTGTTATAACTGTTA
TATACACATACGTATAATTTTGCTTTCTTTTTTAAAGAGAGGATTCTTTTCATCCTAAATC
TTTTACCTTTCAATCTTTGTATCTATTATTACACGTGCTGCTGAAGGGAGCATGGTTTTT
ATCTATGATACTTAGTTAACATATATATTACATTTATAGCTATGTAGTAGTTCCCTAAA
TTCTTGTA AAAATAAATTTTTTATTTG

Gene 567. >ENST00000328339 cDNA sequence

TCAGCCCCTGGGGTAGATCCCAGCCCCCGCATAGGTCCTTTTGCTGGAAAAGGAAGAGG
GAGTGGTGGGACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCCCCCT
GAGCCTGAGGAGATCTGGGTGGTGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGA
CGGCGAGTGTGCTCGTGCTCCCTGAGCACCACGAGGCCTTCAACAGGCTGCTTGAGGAT
CCTGTCAATTAAGATTCTGGCCTGGGACAAAGATCTGAGGGTGTGGACAAGTATCTC
CTGGCTATGGTCATAGCGTATCAGCCGGGCCGGCCTCCCCTCCTGGCAATACCAACGCAT
TCATTTCTTCTGGCTCTGTG

Gene 568. >ENST00000310842 cDNA sequence

CCGGCGGCTGCGGCGGCTGGAGCAGGCGAGCGGCGGCGGCGGATAGCGAGTGTCAAGGCC
GGCGGGGGCGGCGCTTCTCGGCCTGTGCTGGTGGCCTCCTACTGTACCTCGTGCCTGC
TGCGGCTGCGCTGGCCTGGCTGGCCGTGGGGACTACCGCGGCTGGTGGGGACTGAGCCG

FIGURE 1 (CONT'D)

CGAGCCCCGAGGTTTCGCGCCCCCTTGTCTCTCTTCGTTCAAGAAGCGCGACATCGGCGAACTCTGTTTCGCTTCGCCTCCGGCCAAGTCGACAGCCAAACGAAACCTCCTAGAGCCGCGGACCTTGCTCGAAGGACCTGACCCTGCCGAACCTGCTCTCTCATGGGCAGTTACCTGGGCAAGCCCGGGCCGCGCAGCCCGCCCCCGCTCCGGAGGGCCAGGACCTGCGGAATAGGCCTGGCCCGCGCCCGCCCGCCGGCGCCGCGCTCCACACCGCCCTCCC CGCCGACCCATCGCGTTTACACTTTTACCCCTCTCTCCCCACTCCTCTTTCTCCGACCCCTCCGGGAGGCCTTCCCCACGGGATCGTGGGGACTTTTACCAGATCGGTTTGTAATAACACCTCGAAGACGCTATCCGATCCATCAGGCCCAGTATTCTCTGTCCGGGGGTACTTCCCACAGTGTGCTGGAATGGTTATCACAAGAAGGCTGTGCTGTCCCCTCGCAACTCCAGGATGGTGTGTAGCCCACTGACTCTGAGGATCGCCCCCTCTGACAGAAGATTTTCGCGTTCTTTCGATACCCAGAGCAGATAATCAGCTCAACACTGTCTCTCACCATCAAGTAATGCCCCAGACCCATGTGCAAAAGGAGACTGTACTGAGTGGCCTCAAAGAGAAGAAGAAAGAAAGGACAGTGGAGGAAGAAGACCAAATATCTCTTGATGGCCAGGAAAAATAAAAGAAGCTGTCTTGTGCAGCGGCTCACTGATGCTCTTCTGCATTTCAAAGTTCTCTCGACCCGGGCGAGATACACTCCAGTTACAGTGGATGCTCTTCCACTTTTGCTAATGACTCCAGAAACATGATATACATCACTGCCACCTGAAGGTCACCCTAGCTGAGCAGGACCCAGATGAACTCAAACAAGGCCTGTTCTTTCAGCAAAGCCTTCCAACAGCTGGTTCCCAGTGGAAGGCCTGGCTGACATCTGTCAATGCTGTAAACAAAGGTGACTGTGGCACTCCAAGCCATTCCAGGAGGCAGCCTCGTGTGCTGAGCCAGTGGTCCACGCTCTGCTTCCAACCGCAGGCATGTGACAGAAGAAGCAGATGTCAACCGTGGGGACTGATCTTCTCGGACAGGAG

Gene 569. >ENST00000306803 cDNA sequence

[illegible]

Gene 570. >ENST00000331921 cDNA sequence

AAAAGGAAGAGGGAGTGGTCA GATGAATCTGAGGAGGAGCCGGAGAAGGAGCTCGCCCCCT

FIGURE 1 (CONT'D)

GAGCCTGAGGAGACCTGGGTAGTGGAGATGCTGTGTGGGCTCAAGATGAAGCTGAAGCAA
 CAGCGAGTGTTCATCCATCCTCCCTGAGCACCACAAGGACTTCAACAGTCAGCTTGCCCT
 GGGGTAGATCCCAGCCCCCGCATAGGTCTTTTGTCTGGAAAAGGAAGATGGAGTGGTGG
 GACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCCCTGAGCCTGAG
 GAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGACGGCGAGTG
 TCGCTCGTGCTCCCTGAGCACCACGAGGCCTTCAACAGGCTGCTTGAGGATCCTGTCAATT
 AAAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTGTGGGACAAGTATCTCCTGGCTATG
 GTCATAGCGTATTTTCAAGCCGGGCTGGCTTCCCTCCTGGCAATACCAACGCATTTCATTTT
 TTCCTGGCTCTCTACCTGGCCAATGACATGGAGGAGGACGACGAGGACTCCAAACAAAAC
 ATCTTCCACTTCTGTATAGGAAGAACCGCTCTCGCATACCTTGCTCCGTAAGCGTTGG
 TTCCAGTTAGGCCATTCCATGAACCCGAGGGCCAGGAAGAACCGCTCTCGCATACCTTG
 CTCCGTAAGCGTCGGTTCCAGTTATACCGTTCCACGAACCCGAGGGCCAGGAAGAACCGC
 TCTCGCATACCTTGCTCCGTAAGCGTCGGTTCCAGTTATACCGTTCCATGAACTCGAGG
 GCCAGGAAGAACCGCTCTCAGATAGTCCTGTTCCAGAAACGACGCTTCCACTTCTTCTGT
 TCCATGAGCTGCAGGGCTTGGGTTTCCCCAGAGGAGTTGGAGGAGATCCAGGCTTATGAC
 CCAGAGCACTGGGTGTGGGCGCGAGATCGCGCTCACCTTCTTAGAGCTCCAGGGACCGG
 GGAGGCTGAGGTTCATCGGCCTGAGAGAAGAACAACCTGGACCCAGGGGAGATGTGGATTTT
 CAGCAGGAACTTTATTCCAATGCTAATGGCAGACACCAGGCAGGAGGAGAGGAACCATTT
 GTGCAGATCATCTAGAAGAACCTGGACCATTCTTGATGGAGCTGAATACAGTGATCACGT
 TGTCTCTCTAGGAGCAGGGGTGGGGGGAGGGGGGTGGGGTCTTCTAGGAGTCTTGGAG
 AAAAGTAAGAAACCAGGAGCGTTTCCAGTTCCACCCTTCTGCGGCACCAACACCTTTT
 TTATATTGCTGAATTTCAACCTCCCTGGGGCGGAACCTGGAGGTCTGTTTCTTACGGAC
 TTGCAGTCCAGGAGGATTTGAAGGCACAATGCAGGGGCTCAGATTGGGACAGAATCTTT
 TGTGAAATATCAGTGCCACAGATTGTAACAGATAGCTTCATGCACACTCTGCATTTTATT
 GGTGTGTTTGGAAAATGTGCGCCATTGAATTATTATAGATTTATTTCAAATAGTTTGGAA
 AATTGTTGTACTTTTGAACAATGCTGTTCTGTAGTTTTTTGATGAGAGTTATAGTTGT
 TATATATACATAAAGATAATTTTCTTTTCAATTTTAAAGAGACAATTCTTTTATCCTAAAT
 ATTTTATTATCTTTAAATTTGTTTCTGTATTATTATATGTGCTCCTGAAGCGAGCACTCT
 TTTTATCTATGATACTTCCATAATAATCTCTTCTATTATATAGCTATTGGTAGTTCCCCAC
 CAGAAAAATACATAATTCTGGTGATAGAAATTTTATTTGCTGTTTAGGTTTGTGACTGA
 ATTGTGAGAATTGAGTTGTGATTTTAAACATGTCTCAGATATATATACTAACACGTCTAA
 TATATACTATCTATTTTATTGGTTTATTTTGAACCAATGGGTATAGAATTATTTAAATA
 TTATTTTATTTTAAATATTTTATTAATATATTTATTTTAAATATTATTTTACA
 TTAAATATTATTTTAAATATTTTGGAAATACTGGTATTTTGAATAGATGCTGTTTCTAC
 AAAGCTGTGTGATGGGTATTATAACTGTTATATACACATACATATAATTTGTTTTCTT
 TTTAAGAGAGGATTCTTTTTCATCCTAAATCTTTTACCTTTCAATCTTTGTATCTATTATT
 ACACGTGCTGCTGAAGGGAGCATGGATTTTATCTATGATACTTAGTTAACATATATATTA
 CATTTATAGCTATGTAGTAGTTCCCTAAATCTTGTAAAAATAAATTTTTATTTG

Gene 571. >ENST00000332533 cDNA sequence

TCAGCCCCTGGGGTAGATCCCAGCCCCCGCATAGGTCTTTTGTCTGGAAAAGGAAGATG
 GAGTGGTGGGACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCCCT
 GAGCCTGAGGAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGA
 CGGCGAGTGTGCTCGTGCTCCCTGAGCACCACGAGGCCTTCAACAGGCTGCTTGAGGAT
 CCTGTCAATTAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTGTGGGACAAGTATCTC
 CTGGCTATGGTCATAGCGTATCAGCCGGGCTGGCTTCCCTCCTGGCAATACCAACGCAT
 TCATTTCTTCTGGCTCTGTG

Gene 572. >ENST00000275621 cDNA sequence

GGCCAGGCCGCGCCCCCGCGTGCCTGCGCGGCCCGGAGAGCCGTGCGGGCGCCCGGTA
 CTCACTAGCTGAGGTGGCAGTGGTTCCACCAACATGGAGCTCTCGCAGATGTGCGAGCTC
 ATGGGGCTGTGCGGTGTTGCTTGGGCTGCTGGCCCTGATGGCGACGGCGGGTAGCGCGG
 GGGTGGCTGCGCGCGGGGGAGGAGAGGAGCGGCCCGCCCGCTGCCAAAAGCAAATGGA
 TTTCCACCTGACAAATCTTGGGATCCAAGAAGCAGAAACAATATCAGCGGATTGGAAG
 GAGAAGCCTCAACAACACAACCTTACCCACCGCCTCCTGGCTGCAGCTCTGAAGAGCCAC
 AGCGGGAACATATCTTGCATGGACTTTAGCAGCAATGGCAAATACCTGGCTACCTGTGCA

FIGURE 1 (CONT'D)

GATGATCGCACCATCCGCATCTGGAGCACCAAGGACTTCCTGCAGCGAGAGCACCGCAGC
 ATGAGAGCCAACGTGGAGCTGGACCACGCCACCCTGGTGCCTTCAGCCCTGACTGCAGA
 GCCTTCATCGTCTGGCTGGCCAACGGGGACACCCTCCGTGTCTTCAAGATGACCAAGCGG
 GAGGATGGGGGCTACACCTTCAAGCCACCCAGAGGACTTCCTAAAAAGCACAAGGCG
 CCTGTATCGACATTGGCATTGCTAACACAGGGAAGTTTATCATGACTGCCTCCAGTGAC
 ACCACTGTCTCATCTGGAGCCTGAAGGGTCAAGTGCTGTCTACCATCAACAACCAACAG
 ATGAACAACACACACGCTGCTGTATCTCCCTGTGGCAGATTTGTAGCCTCGTGTGGCTTC
 ACCCCAGATGTGAAGGTTTGGGAAGTCTGCTTTGGAAAGAAGGGGGAGTTCAGGAGGTG
 GTGCGAGCCTTCGAATAAAGGGCCACTCCGCGGCTGTGCACTCGTTTGCTTTCTCCAAC
 GACTCACGAGGATGGCTTCTGTCTCCAAGGATGGTACATGGAACTGTGGGACACAGAT
 GTGGAATACAAGAAGAAGCAGGACCCCTACTTGCTGAAGACAGGCCGCTTTGAAGAGGCG
 GCGGGTGCCGCGCCGTGCCGCTGGCCCTCTCCCCAACGCCCAAGTCTTGGCCTTGGCC
 AGTGGCAGTAGTATTTCATCTCTACAATACCCGGCGGGGCGAGAAGGAGGAGTGCTTTGAG
 CGGGTCCATGGCGAGTGTATCGCCAACTTGCTCTTTGACATCACTGGCCGCTTTCTGGCC
 TCCTGTGGGGACCGGGCGGTGCGGCTGTTTCAACAACCTCCTGGCCACCGAGCCATGGTG
 GAGGAGATGCAGGGCCACCTGAAGCGGGCCTCCAAAGAGAGCACCCGCCAGAGGCTGCAG
 CAGCAGCTGACCCAGGCCCAAGAGACCCTGAAGAGCCTGGGTGCCCTGAAGAAGTGACTC
 TGGGAGGGCCCCGGCGCAGAGGATTGAGGAGGAGGGATCTGGCCTCCTCATGGCACTGCTG
 CCATCTTTCTCCAGGTGGAAGCCTTTGAGAAGGAGTCTCCTGGTTTTCTTACTGGTGG
 CCCTGCTTCTTCCATTGAACTACTCTTGTCTACTTAGGTCTCTCTCTTCTTGGCTGGCT
 GTGACTCCTCCCTGACTAGTGGCCAAGGTGCTTTTCTTCTCCAGGCCAGTGGGTGGA
 ATCTGTCCCACTGGCACTGAGGAGAATGGTAGAGAGGAGAGGAGAGAGAGAGAATG
 TGATTTTTGGCCTTGTGGCAGCACATCCTCACACCCAAAGAAGTTTGTAATGTTCCAGA
 ACAACCTAGAGAACACCTGAGTACTAAGCAGCAGTTTTGCAAGGATGGGAGACTGGGATA
 GCTTCCCATCACAGAACTGTGTTCCATCAAAAAGACACTAAGGGATTTCTTCTGGGCCT
 CAGTTCTATTTGTAAGATGGAGAATAATCCTCTCTGTGAACCTCTTGCAAAGATGATATG
 AGGCTAAGAGAATATCAAGTCCCAGGTCTGGAAGAAAAGTAGAAAAGAGTAGTACTATT
 GTCCAATGTATGAAAGTGGTAAAAGTGGGAACCAAGTGTGCTTTGAAACCAAATTAGAAA
 CACATTCTTGGGAAGGCAAAGTTTTCTGGGACTTGATCATACATTTTATATGGTTGGGA
 CTTCTCTCTTCGGGAGATGATATCTTGTTTAAGGAGACCTCTTTTCAGTTCATCAAGTTC
 ATCAGATATTTGAGTGCCCACTCTGTGCCCAAATAAATATGAGCTGGGGATT

Gene 573. >ENST00000305632 cDNA sequence

GGCCAGGCCGCGCCCCGCGTGCCTGCGCGGCCCGGCAGAGCCGTGCGGGCGCCCGCGTA
 CTCACTAGCTGAGGTGGCAGTGGTTCCACCAACATGGAGCTCTCGCAGATGTGCGAGCTC
 ATGGGGCTGTGCGGTGTTGCTTGGGCTGCTGGCCCTGATGGCGACGGCGGCGGTAGCGCGG
 GGGTGGCTGCGCGCGGGGGAGGAGAGGAGCGGCCCGCCCTGGCCCAGGAGCTTTTTTT
 CCTGTTGGAATTGGGGAGCATCTGCAGTCATTTACCACATGCCAGCTTTGTGACTCAATT
 AAGTATCTTTTACAAAAGTGA

Gene 574. >ENST00000316899 cDNA sequence

AGTTCTACCCGCGAGAGGGAAGAAGCAGGAGGTCTCAGCATGAAACAGCAGCAGTGGTG
 TGGGATGACTGCCAAAATGGGCACCGTGTGTGTCAGGGGTCTTCACCATCATGGCCGTAGA
 CATGTATCTCATCTTTGAACAGAAACACCTAGGGAATGGCAGTTGCACTGAGATCACACC
 AAAGTACAGGGGTGCAAGTAACATCATAAATAACTTCATCATCTGCTGGAGTTTTAAAT
 CGTCCTCTTCTGTCTTTTCATCACCATCCTCATCAGCTGCTTCTCTGTACTCAGTGTA
 TGCCAGATCTTCAGGGGCTGGTTCATCTACATTGTCTGGATTTTTTTCTATGAAACTGC
 AAACGTCGTAATACAAATCCTCACCAACAATGACTTTGACATTAAAGAGGTGAGAATCAT
 GCGCTGGTTTTGGCTTGGTGTCTCGTACAGTCATGCACTGTTTCTGGATGTTCTTTGTAT
 CAACTATGCCCAATAACCTACAAAACCGGAGCCAGGGCAATATAATTTCTACAAGAG
 ACGAATTTCTACAGCGGAGATTCTCCACAGCAGAAATAAAAGATTATCAATTTGAGTGG
 GTTCAGTGGCTCACCTGGAATCCCAGTACTTTGAGAGGCAGAGGAGGTGCTCTGGTAA
 AACAAGTATAAAATGAATGTGAGGATGTTCTCCCTCATGGTGGGCATCTTCTCTGTCTT
 AATACCAACCCAGTTCTTCATCTTTGACCTGAACCAAGACACACATTTGCTATGAGGCC
 AAGTTGAGCATCTACGTGGACTCAAAGTCGGAGCTAGTCACTTGGACCCTGTTCCACAGG
 GCTAATATCAGCACTGGCCTCTCCCTCACCAACATCATCATCGGCTGCTTCTCTTTTAT

FIGURE 1 (CONT'D)

TGTATCCACAAGAATATCTACATGGGGCTGCTGATCTATGCCATGTGGATCATCACTTAC
GAGCTCATCAACTTCTCCATAGTCCTGCTCCTCAACGGGATCATCAAAGATCACTTCAAG
ACGCTGAGTTATTTGCACTGGATCTTCAAATCTCACACATGCTCCTGCACTTTTTCTGT
CTGCCCTTCATCGTCAAGCATGCATACAACCTTTACAAGGAATCCAGACTGTGGGCAGG
AAACGCCGCCACAGGCTCTGCTCCACCATTGCAGTGAACTCATGACTACCTGTCCGTCTG
GGAATGTTGTACCGGAAGTTAAACTGAACCATGCCAGATGCCAGGAAAGGTGGGAGGGAA
TGGTGTTCCTCAACAATGGAACCTCCCTACCCTGCCTGTCTTCTGTTGATGCTGCTTGG
TTTGTGAGGGCTTTTGAGTTTTACGCACTGAGGAATGATTCTCGGGAGAGGGCAGGTTGT
GCGGATCAATTATTTTACAGATGTGTTGTGTGACTTGTTTTAGCAGTTAATGATATGTGG
CCTTGTGCTTACTTAACCATC

Gene 575. >ENST00000316909 cDNA sequence

AGTTCCTACCCGCGAGAGGGAAGAAGCAGGAGGTCTCAGCATGAAAAGCAGCAGCAGTGGTG
TGGGATGACTGCCAAAATGGGCACCGTGTTGTGAGGGGTCTTCACCATCATGGCCGTAGA
CATGTATCTCATCTTTGAAAGAGACCTAGGGAATGGCAGTTGCACTGAGATCACACC
AAAGTACAGGGGTGCAAGTAACATCATAAATAACTTCATCATCTGCTGGAGTTTTAAAT
CGTCCTCTTCTGTCTTTTATCACCATTCTCATCAGCTGCTTCTCCTGTACTCAGTGTA
TGCCAGATCTTCAGGGGCTGGTTCATCTACATTGTCTGGATTTTTTTCTATGAAACTGC
AAACGTCGTAATACAAATCCTCAACAACATGACTTTGACATTAAAGAGGTGAGAATCAT
GCGCTGGTTTTGGCTTGGTGTCTCGTACAGTCATGCACTGTTTCTGGATGTTCTTTGTAT
CAACTATGCCACATAACCTACAAAACCGGAGCCAGGGCAATATAATTTCTACAAGAG
ACGAATTTCTACAGCGGAGATTCTCCACAGCAGAAATAAAGATTATCAATTTGAGTGG
GTTTCACTGGCTCACACCTGGAATCCCAGTACTTTGAGAGGCAGAGCTTCCACACTAGCAT
ATTTACCTGTCTGTCTCCAGTGCCAAGCTCAGCCCCAGCACCTGTAGATACACAATAGA
TGTCTGCTGAGAGGTGCTCTGGTAAAAACAAGTATAAAATGAATGTCAGGATGTTCTCCCT
CATGGTGGGCATCTTCTCTGTCTTAATACCAACCCAGTTCTTCATCTTTGACCTGAACCA
GAAGACACACATTTGCTATGAGGCCAAGTTCAGCATCTACGTGGACTCAAAGTCGGAGCT
AGTCACTTGGACCTGTTCCACAGGGCTAATATCAGCACTGGCCTCTCCCTCACCACCAT
CATCATCGGCTGCTTCTCTTTTATTGTATCCACAAGAATATCTACATGGGGCTGCTGAT
CTATGCCATGTGGATCATCACTTACGAGCTCATCAACTTCTCATAGTCTGCTCCTCAA
CGGGATCATCAAAGATCACTTCAAGACGCTGAGTTATTTGCACTGGATCTTCAAATCTC
ACACATGCTCCTGCACTTTTTTCTGTCTGCCCTTCATCGTCAAGCATGCATACAACCTTTA
CAAGGAATCCAGACTGTGGGCAGGAAACGCCGCCACAGGCTCTGCTCCACCATTGCAGT
GAACTCATGACTACCTGTCCGTCTGGGAATGTTGTACCGGAAGTTAAACTGAACCATGCC
AGATGCCAGGAAAGGTGGGAGGGAATGGTGTTCCTCAACAATGGAACCTCCTACCCCTG
CCTGTCTTCTGTTGATGCTGCTTGGTGTGTCAGGGCTTTTGAGTTTTACGCACTGAGGAA
TGATTCTCGGGAGAGGGCAGGTTGTGCGGATCAATTATTTTACAGATGTGTTGTGTGACT
TGTTTTAGCAGTTAATGATATGTGGCCTTGTGCTTACTTAACCATC

Gene 576. >ENST00000259722 cDNA sequence

CCCGAGAGGAGTCGGTGGCAGCGGCGGCGGGACCGGCAGCAGCAGCAGCAGCAGCAG
CAGCAGCAACCACTAGCCTCCTGCCCGCGCGCTGCCGCACGAGCCCCACGAGCCGCTC
ACCCCGCGGTTCTCAGCGCTGCCCGACCCCGCTGGCGCGCCCTCCCGCCGCAGTCCCGG
CAGCGCCCTCAGTTGTCTCTCCGACTCGCCCTCGGCCTTCCGCGCCAGCCGAGCCACAGC
CGCAACGCCACCCGAGCCACAGCCACAGCCACAGCCCCAGGCATAGCCTTCGGCACAGC
CCCGGCTCCGGCTCCTGCGGCAGCTCCTCTGGGCACCGTCCCTGCGCCGACATCCTGGAG
GTTGGGATGCTCTTGTCCAAATCAACTCGCTTGCCACCTGCGCGCCGCGCCCTGCAAC
GACCTGCACGCCACCAAGCTGGCGCCCGGCAAGGAGAAGGAGCCCCTGGAGTCGAGTAC
CAGGTGGGCCCGCTACTGGGCAGCGGCGGCTTCGGCTCGGTCTACTCAGGCATCCGCGTC
TCCGACAACCTTGCCGGTGGCCATCAAACACGTGGAGAAGGACCGGATTTCCGACTGGGGA
GAGCTGCCTAATGGCACTCGAGTGCCCATGGAAGTGGTCTCTGCTGAAGAAGGTGAGCTCG
GGTTTCTCCGGCGTCATTAGGCTCCTGGACTGGTTTCGAGAGGCCCGACAGTTTCGTCTTG
ATCCTGGAGAGGCCCGAGCCGGTGCAAGATCTCTTCGACTTCATCACGGAAGGGGAGCC
CTGCAAGAGGAGCTGGCCCGCAGCTTCTTCTGGCAGGTGCTGGAGGCCGTGCGGCACTGC
CACAACCTGCGGGGTGCTCCACCGCGACATCAAGGACGAAAACATCCTTATCGACCTCAAT
CGCGGCGAGCTCAAGCTCATCGACTTCGGGTGGGGGCGCTGCTCAAGGACACCGTCTAC

FIGURE 1 (CONT'D)

ACGGACTTCGATGGGACCCGAGTGTATAGCCCTCCAGAGTGGATCCGCTACCATCGCTAC
CATGGCAGGTCCGCGGCAGTCTGGTCCCTGGGGATCCTGCTGTATGATATGGTGTGTGGA
GATATTCCTTTTCGAGCATGACGAAGAGATCATCAGGGGCCAGGTTTTCTTCAGGCAGAGG
GTCTCTTCAGAATGTGAGCATCTCATTAGATGGTGCTTGGCCCTGAGACCATCAGATAGG
CCAACCTTCGAAGAAATCCAGAACCATCCATGGATGCAAGATGTTCTCCTGCCCCAGGAA
ACTGCTGAGATCCACCTCCACAGCCTGTGCGCGGGGCCAGCAAATAGCAGCCTTTCTGG
CAGGTCCCTCCCCTCTCTTGTGAGATGCCCCGAGGGAGGGGAAGCTTCTGTCTCCAGCTTCC
CGAGTACCAGTGACACGTCTCGCCAAGCAGGACAGTGCTTGATACAGGAACAACATTTAC
AACTCATTCCAGATCCAGGCCCTGGAGGCTGCCTCCCAACAGTGGGGAAGAGTGACTC
TCCAGGGGTCTAGGCCTCAACTCCTCCCATAGATACTCTCTTCTTCATAGGTGTCCA
GCATTGCTGGACTCTGAAATATCCCGGGGGTGGGGGGTGGGGGTGGGTGAGAACCTGCC
ATGGAAGTGTTCCTTCATCATGAGTTCTGCTGAATGCCGCGATGGGTGAGGTAGGGGGG
AAACAGGTTGGGATGGGATAGGACTAGCACCATTTTAAGTCCCTGTCACCTCTTCCGACT
CTTTCTGAGTGCCTTCTGTGGGGACTCCGGCTGTGCTGGGAGAAATACTTGAACCTGCCT
CTTTTACCTGCTGCTTCTCCAAAATCTGCCTGGGTTTTGTTCCTATTTTTCTCTCCTG
TCCTCCCTCACCCCTCCTTCATATGAAAGGTGCCATGGAAGAGGCTACAGGGCCAAACG
CTGAGCCACCTGCCCTTTTTTCTGCCTCCTTTAGTAAACTCCGAGTGAAGTGGTCTTCC
TTTTTGGTTTTTACTTAACTGTTTTCAAAGCCAAGACCTCACACACAAAAAATGCACAA
ACAATGCAATCAACAGAAAAGCTGTAAATGTGTGTACAGTTGGCATGGTAGTATACAAAA
AGATTGTAGTGGATCTAATTTTTAAGAAATTTTGCTTTAAGTTATTTTACCTGTTTTTG
TTTCTTGTTTTGAAAGATGCGCATTCTAACCTGGAGGTCAATGTTATGTATTTATTTATT
TATTTATTTGGTTCCCTTCTATTCCAAGCTTCCATAGCTGCTGCCCTAGTTTTCTTTCC
TCCTTTCTCCTCTGACTTGGGGACCTTTTGGGGGAGGGCTGCGACGCTTGCTCTGTTTG
TGGGGTGACGGGACTCAGGCGGGACAGTGCTGCAGCTCCCTGGCTTCTGTGGGGCCCCCTC
ACCTACTTACCCAGGTGGGTCCCGGCTCTGTGGGTGATGGGGAGGGGCATTGCTGACTGT
GTATATAGGATAATTATGAAAAGCAGTTCTGGATGGTGTGCCTTCCAGATCCTCTCTGGG
GCTGTGTTTTGAGCAGCAGGTAGCCTGCTGGTTTTATCTGAGTGAAATACTGTACAGGGG
AATAAAAGAGATCTTATTTTTTTTTTTTATACTTGGCGTTTTTTGAATAAAAACCTTTTGT
CTT

Gene 577. >ENST00000243720 cDNA sequence

CCCCGCGCTGCGCGGAGCAGGGACCCAGGCGGTTGCGGCGGCGACAGCCATGGCCGGCGCG
CTGGCAGGTCTGGCCGCGGGCTTGAGGTCCCGCGGGTTCGCGCCAGCCAGACTCGGAC
TCGGACACAGACTCGGAGGACCCGAGTCTCCGGCGCAGCGCGGGCGGCTTGCTCCGCTCG
CAGGTCATCCACAGCGGTCACTTCATGGTGTGCTCGCCGCAAGCGACTCGCTGCCCCGG
CGGCGCGACACAGGAGGGGTCCGTGGGGCCCTCCGACTTCGGGCGCGCAGTATCGACCCC
ACACTCACACGCCTCTTCGAGTGCTTGAGCCTGGCCTACAGTGGCAAGCTGGTGTCTCCC
AAGTGAAGAATTTCAAAGGCCTCAAGCTGCTCTGCAGAGACAAGATCCGCTGAACAAC
GCCATCTGGAGGGCCTGGTATATCCAGTATGTGAAGCGGAGGAAGAGCCCCGTGTGTGGC
TTCGTGACCCCCCTGCAGGGGCTGAGGCTGATGCGCACCGGAAGCCGGAGGCCGTGGTC
CTGGAGGGGAATACTGGAAGCGGCGCATCGAGGTGGTGTGCGGGAATACCAACAAGTGG
CGCATCTACTACAAGAAGCGGCTCCGTAAGCCCAGCAGGGAAGATGACCTCCTGGCCCCCT
AAGCAGGCGGAAGGCAGGTGGCCGCCCGCGGAGCAATGGTGCACACAGCTCTTCTCCAGT
GTGGTCCCCGTGCTGCTGGGGGACCCAGAGGAGGAGCCGGGTGGGCGGCAGCTCCTGGAC
CTCAATTGCTTTTTGTCCGACATCTCAGACACTCTCTTACCATGACTCAGTCCGGCCCT
TCGCCCCCTGCAGCTGCCGCTGAGGATGCCTACGTGCGCAATGCTGACATGATCCAGCCG
GACCTGACGCCACTGCAGCCAAGCCTGGATGACTTCATGGACATCTCAGATTTCTTTACC
AACTCCCGCCTCCACAGCCGCCCATGCCTTCAAACCTTCCAGAGCCCCCAGCTTCAGC
CCCGTGGTTGACTCCCTCTTCAGCAGTGGGACCCTGGGCCCAGAGGTGCCCCCGGCTTCC
TCGGCCATGACCCACCTCTCTGGACACAGCCGTCTGCAGGCTCGGAACAGCTGCCCTGGC
CCCTTGACTCCAGCGCCTTCTGAGTTCTGATTTCTCTCTTCTGAAGACCCCAAGCCC
CGGCTCCCACCCCTCCTGTACCCCCACCTCTGCTGCATTACCTCCCCCTGCCAAGGTG
CCAGGCCTGGAGCCCTGCCCCCACCTCCCTTCCCTCCCATGGCACCCCACTGCTTTG
CTGCAGGAAGAGCCTCTCTTCTCTCCAGGTTTCCCTTCCCCACCGTCCCTCCTGCCCCA
GGAGTGTCTCCGCTGCCTGCTCCTGCAGCCTTCCACCCACCCCAAGTCTGTCCCCAGC

FIGURE 1 (CONT'D)

CCAGCCCCACCCCCTTCCCATAGAGCTTCTACCCCTTGGGGTATTTCGGAGCCTGCCTTT
GGGCCTTGCTTCTCCATGCCAGAGGCAAGCCCCCGCCCCATCCCCTAGGGGACAGAAA
GCCAGCCCCCTACCTTAGCCCCCTGCCACTGCCAGTCCCCCACTGCGGGGAGCAAC
AACCCTGCCTCACACAGCTGCTCACAGCAGCTAAGCCGGAGCAAGCCCTGGAGCCACCA
CTTGATCCAGCACCTCCTCCGGTCCCCAGGGTCCCCGAGGAGACAGTCCCTGAATTCT
CCCTGCACATTCTTCCCCGACCCCGGCCCTACACCGCCCCGGCCACCTCCAGGCCCCG
GCCACATTGGCCCCCTTCCAGGCCCCCTGCTTGTCCCCAAAGCGGAGCGGCTCTCACCCCCA
GCGCCAGCGGCAGTGAACGGCGGCTGTGAGGGGACCTCAGCTCCATGCCAGGCCCTGGG
ACTCTGAGCGTCCGTGTCTCTCCCCGCAACCCATCCTCAGCCGGGGCCGTCCAGACAGC
AACAAGACCGAGAACCGGCGTATCACACACATCTCCGCGGAGCAGAAGCGGCGCTTCAAC
ATCAAGCTGGGGTTTGACACCCCTTCATGGGCTCGTGAGCACACTCAGTGCCAGCCCAGC
CTCAAGGTGAGCAAAGCTACCACTGTCAGAAAGACAGCTGAGTACATCCTTATGCTACAG
CAGGAGCGTGCAGGCTTGAGGAGGAGGCCCCAGCAGCTGCGGGATGAGATTGAGGAGCTC
AATGCCGCCATTAACTGTGCCAGCAGCAGCTGCCCGCCACAGGGGTACCCATCACACAC
CAGCGTTTTTGACCAGATGCGAGACATGTTTGATGACTACGTCCGAACCCGTACGCTGCAC
AACTGGAAGTTCTGGGTGTTTTCAGCATCCTCATCCGGCCTCTGTTTGAGTCCTTCAACGGG
ATGGTGTCCACGGCAAGTGTGCACACCCCTCCGCCAGACCTCACTGGCCTGGCTGGAACAG
TACTGCTCTCTGCCCCGCTCTCCGGCCAACTGTCTGAACTCCCTACGCCAGCTGGGCACA
TCTACAGTATCCTGACCGACCCGGGCCGCTCCCTGAGCAAGCCACAAGGGCAGTCAAC
GAGGGCACCCCTTGGCAAACCTTTATAGTCTTGCCAGACCCCTGCTGCTCACTCAGCTGCC
CTGGGGGCTGCTTTCCCTGGGCACGGGCTCCAGGGATCATCTCTGGGCACTCCCTTCTCTG
CCCCAGGCCCTGGCTCTGCCCTTCCCTGGGGGGTGGAGCAGGGTCCAGGTTTCACACTTG
CCACCTCCTGGAGGTCAAGAAGAGCAGAGTCCCCGTCCCTGCTCTGCCACTGTGCTCCAG
CACCGTGACCTTGGGTGACTCGTCCGCTGTCTTTGGACCGCTGTGTTTCAATCTGCAAAA
TGGGGATGGGGAAGGTTCAATCAGCAGATGACCCCCAGGCCTTGGCAGCTGTGACATTGG
GGGCCTAGGCTGGCAACTCCGGGGGCTCAACGGTGGAAAGAGGAGGATGCTGTTTCTCTG
TCACCTCACTTGCTCCCCGACAGGTGGGGCACAGACCTCTGTTCTGAGCAGAGAAGCA
GAAAAGGAGGTTCCCTCTCTCTGCTCCTTCACTGCTGACCCAGAGGGGCTGCAGGATGGT
TTCCCTGGGAGAGGCCAGGAGGGCCTGATCCCAGGAGACACCAGGGCCAGAGTGACAC
AGCAGGGCAGGCATCATGTGTGTGTGTGTGTGTGGATGTGTGTGTGGGTTTTGTAAAG
AATTCTTGACCAATAAAAGCAAAAACCTGTCTGCTGGT

Gene 578. >ENST00000313375 cDNA sequence

CCCCGCGCTGCGCGGAGCAGGGACAGGCGGTTGCGGCGGCGACAGCCATGGCCGGCGCG
CTGGCAGGTCTGGCCGCGGGCTTGAGGTCCCGCGGGTTCGCGCCAGCCCAGACTCGGAC
TCGGACACAGACTCGGAGGACCCGAGTCTCCGGCGCAGCGCGGGCGGCTTGCTCCGCTCG
CAGGTCACTCACAGCGGTCACTTCATGGTGTCTGTCGCGCACAGCGACTCGCTGCCCGG
CGGCGCGAACAGGAGGGGTCCGTGGGGCCCTCCGACTTCGGGCGCGCAGTATCGACCCC
ACACTCACACGCCTCTTCAGTGCTTGAGCCTGGCCTACAGTGGCAAGCTGGTGTCTCCC
AAGTGGAAGAATTTCAAAGGCCTCAAGCTGCTCTGCAGAGACAAGATCCGCCTGAACAAC
GCCATCTGGAGGGCCTGGTATATCCAGTATGTGAAGCGGAGGAAGAGCCCCGTGTGTGGC
TTCGTGACCCCCCTGCAGGGGCTGAGGCTGATGCGCACCGGAAGCCGGAGGCCGTGGTCT
CTGGAGGGGAACTACTGGAAGCGGCGCATCGAGGTGGTGATGCGGGAATACCAAGTGG
CGCATCTACTACAAGAAGCGGCTCCGTAAGCCAGCAGGGAAGATGACCTCCTGGCCCCCT
AAGCAGGCGGAAGGCAGGTGGCCGCGCCCGGAGCAATGGTGCAAAACAGCTCTTCTCCAGT
GTGGTCCCGTGTCTGCTGGGGGACCCAGAGGAGGAGCCGGGTGGGCGGCAGCTCCTGGAC
CTCAATTGCTTTTTGTCCGACATCTCAGACACTCTCTTCAACATGACTCAGTCCGGCCCT
TCGCCCCCTGCAGCTGCCGCTGAGGATGCCTACGTGGCAATGCTGACATGATCCAGCCG
GACCTGACGCCACTGCAGCCAAGCCTGGATGACTTCATGGACATCTCAGATTTCTTTACC
AACTCCCGCCTCCACAGCCGCCCATGCCTTCAAACCTTCCAGAGCCCCCAGCTTCAGC
CCCGTGGTTGACTCCCTCTTCAGCAGTGGGACCTGGGCCCAGAGGTGCCCCCGGCTTCC
TCGGCCATGACCCACCTCTCTGGACACAGCCGTCTGCAGGCTCGGAACAGCTGCCCTGGC
CCCTTGGAATCCAGCGCCTTCTGAGTTCTGATTTCTCTCTTCTGAAGACCCCAAGCCC
CGGCTCCCACCCCTCCTGTACCCCACTCTGCTGCATTACCTCCCCCTGCCAAGGTG
CCAGGCCTGGAGCCCTGCCCCCACTCCCTTCCCTCCCATGGCACCAACCACTGCTTTG

FIGURE 1 (CONT'D)

CTGCAGGAAGAGCCTCTCTTCTCTCCCAGGTTTCCCTTCCCCACCGTCCCTCCTGCCCCA
GGAGTGTCTCCGCTGCCTGCTCCTGCAGCCTTCCCACCCACCCACAGTCTGTCCCCAGC
CCAGCCCCCACCCCCTTCCCCATAGAGCTTCTACCTTGGGGTATTTCGGAGCCTGCCTTT
GGGCCTTGCTTCTCCATGCCAGAGGCAAGCCCCCGCCCCATCCCCTAGGGGACAGAAA
GCCAGCCCCCTACCTTAGCCCCCTGCCACTGCCAGTCCCCCACCCTGCGGGGAGCAAC
AACCCTGCCTCACACAGCTGCTCACAGCAGCTAAGCCGGAGCAAGCCCTGGAGCCACCA
CTTGATCCAGCACCCCTCCTCCGGTCCCCAGGGTCCCCGGCAGTGAACGGCGGCTGTGAG
GGGACCTCAGCTCCATGCCAGGCCCTGGGACTCTGAGCGTCCGTGTCTCTCCCCGCAAC
CCATCCTCAGCCGGGGCCGTCCAGACAGCAACAAGACCGAGAACCGGCGTATCACACACA
TCTCCGCGGAGCAGAAGCGGCGCTTCAACATCAAGCTGGGGTTTGACACCCTTCATGGGC
TCGTGAGCACACTCAGTGCCAGCCAGCCTCAAGGTGAGCAAGCTACCACGCTGCAGA
AGACAGCTGAGTACATCCTTATGCTACAGCAGGAGCGTCCGGGCTTGACGAGGAGGCCC
AGCAGCTGCGGGATGAGATTGAGGAGCTCAATGCCGCCATTAACTGTGCCAGCAGCAGC
TGCCCGCCACAGGGGTACCCATCACACACCAGCGTTTTTGACCAGATGCGAGACATGTTTG
ATGACTACGTCCGAACCCGTACGCTGCACAACTGGAAGTTCTGGGTGTTTACGATCCTCA
TCCGGCCTCTGTTTGGAGTCTTCAACGGGATGGTGTCCACGGCAAGTGTGCACACCCTCC
GCCAGACCTCACTGGCCTGGCTGGACCACTGCTCTCTGCCCCGCTCTCCGGCCAACTG
TCCTGAACTCCCTACGCCAGCTGGGCACATCTACCAGTATCCTGACCGACCCGGGCCGCA
TCCCTGAGCAAGCCACACGGGCAGTCACAGAGGGCACCTTGGCAACCTTTATAGTCCT
GGCCAGACCCTGCTGCTCACTCAGCTGCCCTGGGGGCTGCTTTCCCTGGGCACGGGCTCC
AGGGATCATCTCTGGGCACCTCCCTTCCCTGCCCCAGGCCCTGGCTCTGCCCTTCCCTGGGG
GGTGGAGCAGGGTCCAGGTTTCACTTGGCACCTCCTGGAGGTCAAGAAGAGCAGAGTC
CCCGTCCCTGCTCTGCCACTGTGCTCCAGCACCGTGACCTTGGGTGACTCGTCCGCTGT
TTTGGACCGCTGTGTTTCAATCTGCAAAATGGGGATGGGGAAGGTTCAATCAGCAGATGA
CCCCCAGGCCTTGGCAGCTGTGACATTGGGGGCCTAGGCTGGCAACTCCGGGGGCTCAAC
GGTGGAAAGAGGAGGATGCTGTTTCTCTGTACCTCCACTTGCTCCCCGACAGGTGGGGC
ACAGACCTCTGTTTCTGAGCAGAGAAGCAGAAAAGGAGGTTCCCTCTCTCTGCTCCTTCA
CTGCTGACCCAGAGGGGCTGCAGGATGGTTTCCCCTGGGAGAGGCCAGGAGGGCCTGATC
CCAGGAGACACCAGGGCCAGAGTGACCAAGCAGGGGCAGGCATCATGTGTGTGTGTGTGT
GTGGATGTGTGTGTGTGGGTTTTGTAAAGAATTCTTGACCAATAAAAGCAAAAAGTGTCT
GCTGGTT

Gene 579. >ENST00000223368 cDNA sequence

GGGGGCGACGGCCGCTGTGACGCTGCGGCGGCGGGCGGGCGGGCGGCGGTGAGGCGC
GCGATCCCCGGTGTCTTGGGAGCAGTGCCCCGGCCCCCGCGCTCCCGCCGCCGCGCATGT
CGGGCCGGTCCGTCCGGGCGGAGACCCGAGCCGGGCCAAGGACGACATCAAGAAGGTGA
TGGCGGCCATCGAGAAAGTGCGGAAATGGGAGAAGAAGTGGGTGACTGTGGGTGACACGT
CCCTGAGGATATTTAAGTGGGTTTCTGTGACAGACAGCAAGGAGAAAGAAAAGTCAAAAT
CGAACAGTTTACGAGCCCGAGAACCTAATGGCTTTTCTTCTGATGCCTCAGCCAATTCTT
CTCTCCTTCTTGAATTCCAGGACGAAAACAGCAACCAGAGTTCGGTGTCTGACGTCTATC
AGCTTAAGGTGGACAGCAGCACCAACTCAAGCCCCAGCCCCCAGCAGAGTGAGTCCCTGA
GCCAGCACACACCTCCGACTTCCGCACGGATGACTCCAGCCCCCAACGCTGGGCCAGG
AGATCCTGGAGGAGCCCTCCCTGCCCTCCTCGGAAGTTGCTGATGAACCTCCTACCTCA
CCAAGGAAGAACCAGTTCCACTAGAGACACAGGTCGTTGAGGAAGAGGAAGACTCAGGTG
CCCCGCCCCCTGAAGCGCTTCTGTGTGGACCAACCCACAGTGCCGCAGACGGCGTCAGAAA
GCTAGCACCATCCCGGCCCTCCGCCTCCTGGCCCTGCCTCTATTTATTGCATTCTGGTTT
TGGCCGCGCCGCGTTGCTGGGGTAAGGGCAAGCACTGGGGTCAAGAGCCTGCACACATGA
GCCTTCCGGGCTGGAAGGCTGGCGTAGGACTTGGGGCTGTAGCATCATCTTCTGACCTT
GGCACCTGTGTCTACTTGCTCCCGAGAAGAGGAGCGCTCATGTCTTTTTTGCACCCCAAG
TTGGCTGGAGCATCGGCCACCCCAAGATTCATCTGTGACCTCCAGGCAGCAGTCTCTGCT
CCAGAATCTCTGGACGGAGCTGCTGGCAGCTTCTGCGAGAAGAGAGAGATGTGGAAGGCA
CCTTCTAGAAGAGAGCGTGCCTCAGGTTACTTGAACCTTGAACGGAGACTGTAGACTCCCG
GACTTTCCCCTAGGACTGGGGGCCCTGTAGGCTGCTGTTGGAGGACTGGGTAGAGACATT
GGAGGGAAGGGAAGGGCTTTTCTCCACACAAGGGCAGAGAGTCCGTCTAGATTTCTTGCT
GTCCTGCCAGCTCTGCCCATGCCTGAGGTGGTCTACCTCTCACGGGCACCCTAGCTGCT

FIGURE 1 (CONT'D)

GACAGCCCTTTGTGGCCGCCGTCCCCATCCCCTGCCCTCAGCACACACATCTGCACACAC
GCAGCTTTGTTCTCACCTCTACCTGTCAATCCAGCATCCCTGCCTCTTGTCAAACTGC
CCCAGCAAGAATTTGAGGTTCTGACAACAGTACCCATCCCCACAGTACCCCTTCAGCTC
AGTTTCTAGAAAGCTCCCTTTTCTTTGAAATCTGCATGTTGAATTGAACTTTGTGATTTT
ATTTTTTGTTCAAAAAAGTTTAAAGAAATGGAAATGGGCAACAGTGAGTGAAGACATAT
TTTAGCACTGAATAGAATATTTTTTAAATTAAGTATTTTGAATATG

Gene 580. >ENST00000257632 cDNA sequence

ATGGGGCTACCTGGGGGAGCCTCACCTAGGGCTGCAGATGCTCCTCCTGGCGTTGAAC
TGTCTCCGGCCCAGCCTGAGCCTGGGTGAGTGGGGGTCTGGATGGACGCGTCCAGCCAG
ACCCAAGGGGCTGGGGGCCCTGCTGGAGTGATTGGACCCTGGGCGCCGCCCCCTCCGA
TTGGGAGAGGCAGCCCCAGGGACCCCCACGCCCCTCTCCGTGGCTCACCTTTTGTCCCC
GTGGCCACAGAGCTGGTGCCTTACACACCACAGATAACAGCTTGGGACCTGGAAGGGAAG
GTACAGCCACCACCTTCTCCCTGGAGCAGCCGCGCTGTGTCTTCGATGGGCTTGCCAGC
GCCAGCGATACCGTCTGGCTCGTGGTGGCCTTCAGCAATGCCTCCAGGGGCTTCCAGAAC
CCGGAGACACTGGCTGACATTCCGGCCTCCCCACAGCTGCTGACCGATGGCCACTACATG
ACGCTGCCCCCTGTCTCCGGACCAGCTGCCCTGTGGCGACCCCATGGCGGGCAGCGGAGGC
GCCCCCGTGTGCGGGTGGGCCATGACCACGGCTGCCACCAGCAGCCCTTCTGCAACGCG
CCCCTCCCTGGCCCTGGACCCTATCGGGAAGACCCCCGGATCCATCGACACCTGGCCAGG
GCGGCGAAGTGGCAGCATGATCGTCATTACCTCCATCCTCTCTTCTCTGGCCGGCCTCCT
ACTCTTGGCCTTCTTGGCAGCCTCTACCATGCGCTTCTCCAGCCTGTGGTGGCCGGAGGA
GGCCCCGGAGCAGCTGCGGATCGGCTCCTTCATGGGCAAGCGCTACATGACCCACCACAT
CCCACCCAGAGAGGCCGCCACACTGCCGGTGGGCTGCAAGCCTGGCCTGGACCCCTCCC
CAGCCTCAGCCCCTAGCCTGGCCTCTTTCATGGGGCTGGGGGAGATGGGGCGCTGGGAG
TGA

Gene 581. >ENST00000334348 cDNA sequence

ATGGGGCTACCTGGGGGAGCCTCACCTAGGGCTGCAGATGCTCCTCCTGGCGTTGAAC
TGTCTCCGGCCCAGCCTGAGCCTGGAGCTGGTGCCTTACACACCACAGATAACAGCTTGG
GACCTGGAAGGGAAGGTACAGCCACCACCTTCTCCCTGGAGCAGCCGCGCTGTGTCTTC
GATGGGCTTGCCAGCGCCAGCGATACCGTCTGGCTCGTGGTGGCCTTCAGCAATGCCTCC
AGGGGCTTCCAGAACCCGGAGACACTGGCTGACATTCCGGCCTCCCCACAGCTGCTGACC
GATGGCCACTACATGACGCTGCCCCCTGTCTCCGGACCAGCTGCCCTGTGGCGACCCCATG
GCGGGCAGCGGAGGCGCCCCCGTGTGCGGGTGGGCCATGACCACGGCTGCCACCAGCAG
CCCTTCTGCAACGCGCCCCCTCCCTGGCCCTGGACCCTATCGGGTGAAGTTCTCCTGATG
GACACCAGGGGCTCACCCAGGGCTGAGACCAAGTGGTCAAGCCCCATCACTCTCCACCAA
GGGAAGACCCCCGGATCCATCGACACCTGGCCAGGGCGGCGAAGTGGCAGCATGATCGTC
ATTACCTCCATCCTCTCTTCTCTGGCCGGCCTCCTACTCTTGGCCTTCTTGGCAGCCTCT
ACCATGCGCTTCTCCAGCCTGTGGTGGCCGGAGGAGGCCCCGGAGCAGCTGCGGATCGGC
TCCTTCATGGGCAAGCGCTACATGACCCACCACATCCCACCCAGAGAGGCCGCCACACTG
CCGGTGGGCTGCAAGCCTGGCCTGGACCCCTCCCCAGCCTCAGCCCCTAG

Gene 582. >ENST00000329536 cDNA sequence

ACTGCCCTGGCTTCTGCGCCTCTTCAGGTCACTGCTTCTCGTTCCCAGGCTTTGGC
CTCTAGTGGACGAGAATCACCGAGTCTGCGGGGCTGGACGCTGACTGCCCGGGCCAGCAC
CTAGGCGGGCGGGAGCTGTGCGGCCAGGGTTACGCGGGCCGGGTAGAGGCTCGAGCCG
GGACCCCCGAGGCGGATCTGGGCCCCGAGAAGGACCCCCGCTGGATTTGCCCGTAGGC
CCGGCCCCGGGCCCCCTCGGGAGCAGAACAGCTTTGGTGAAGTGGACAGGAGGTGACCTCGC
GAGCAGACGCGCGCCAGCAGCAGCAGCCCCCGCCCGGCTCTCGGGAGCCGTGGGGCAG
AGGCTGCGGAGCCCCAGGAGGGGCCGGAGCCCTCATGACTTCAGTGACCTGCTTCTGCCC
CTCTAGGTCTATCAGCCACAGTCTCTGCAAGTTTCCAAGAGCAGCAGAAAATGAACACAT
TGCAGGGGCCAGTGTCAATCAAAGATGTGGCTGTGGATTTCACCCAGGAGGAGTGGCAGC
AACTGGACCCTGATGAGAAGATAGCATACGGGGATGTGATGTTGGAGAACTACAGCCATC
TAGTTTCTGTGGGTATGATTATACCAAGCCAAACATCATCATGGAGTGGAGGTGAAGG
AAGTGGAGCAGGAGAGGAGCCGTGGATAATGGAAGGTGAATTTCCATGTCAACATAGTC
CAGGTAAGTTAGTAGATTATCACATGTTAAAAACACT

Gene 583. >ENST00000262936 cDNA sequence

FIGURE 1 (CONT'D)

ATACTTGCGCGCCGACGCCGCCGCTCGCTTGTGAAACTGGAAGGCTGCCATGGCTAGCCC
 AGCGCCTCCTCGGTGCGACCAACGAGGCCAAGAAAGAGCCGAGACGCTCGTCATCCC
 CAAGAATGCGGCGGAGGAGCAGAAGCTCAAGCTGGAGCGGCTCATGAAGAAACCGGACAA
 AGCAGTTCCAATTCCAGAGAAAATGAGTGAATGGGCACCTCGACCTCCCCAGAATTTGT
 CCGAGATGTCATGGGTTCAAGTGCTGGGGCCGGCAGTGGAGAGTTCCACGTGTACAGACA
 TCTGCGCCGGAGAGAATATCAGCGACAGGACTACATGGATGCCATGGCTGAGAAGCAAAA
 ATTGGATGCAGAGTTTCAGAAAAGACTGGAAAAGAATAAAATTGCTGCAGAGGAGCAGAC
 CGCAAAGCGCCGAAGAAGCGCCAGAAGTTAAAAGAGAAGAAATTAATGGCAAAGAAGAT
 GAAACTTGAACAGAAGAAACAAGAAGGACCCGGTCAGCCCAAGGAGCAGGGGTCCAGCAG
 CTCTGCGGAGGCATCTGGAACAGAGGAGGAGGAGGAAGTGCCAGTTTCACCATGGGGCG
 ATGACAATGTTTGGCCAGCCTCTGCCTGGAACCTGGCTCGTGCTGTGACCAGAAGGGAA
 AGGCGGCTGTTTGGCTCTTTCTCCCCGCAAGGACCCGCTGACCCGCTGGATGGAGAGCA
 AAGGAGACCCCTCCCGAGCCGCTCACAGTCTGTATTTGGCAGGTTTGGGAGCCTGAGGG
 GCCATCTCCCTGACACTCAGAGGCACTGCCTTGACAGACACCATCCGTGCTCCTGGTAAAG
 GGGGACAGAGAGCCTCACCTTGCCACATATTTGAACAGTGATGAGTTTGGGGCTGGTTTC
 TGGGAAGGGAAACGTTTATTTAGTAAAGAGCAGAACACCCCTGCGTTTTGTTGGGACATGT
 GGACCGTGAGTCGAAACACTCTGGAGAAGGCTGAGATGCCACCATTCCACGGGGACTG
 AAGACACATTACGTGGACCTGGTCCCAGGCTCAGTGAGGAGATGGCCTCAGCTGTGGGGC
 TGGTCCATGTTGCCCACTCACTCCAGTGGGAAGTGGGGACCAAGCCATAGAGGGTCTGCT
 CCCACTGCAGCTCCCGGTGCTCTCGTGTTCTGGGAAGGCCTGGGTGTGTGCACAAGGAGG
 CCCGGGCCAGGGACTTCACCAGGGGCTGGGTCAAGGGCACAGGGTGTGTGGAAGCGC
 TGTGGGGGAAGAGCCGGTCACCGGAGAGTGAGCAGGCGGAGACTCCAAGCTGGGCTGAGC
 CAGAGCAGAAGGCGAGGGATTCCAGCCGGAACGGGGGTTCTCTACCAACAGCTGTGATT
 TCATCCGAAGTGGAAGGGGGTCTAAACAGAACAGGCTGAGAGAGGCGGGACTGGGTCAA
 GTGGGTGGAGCTCCTCCTTGATGACTGCAACTGTGCGGGCTTTCCGCCGGCTCACAGCA
 GTTGGGGCCAGCGGGGAGAAGAGAGGCGGAACCTGCTGTGTCTCATGTGGCGCAGCCTCA
 AACTGGCATCCAGGCACTGGGCCCATGCAGAGAAGGCACCTGCAGAGAGCAGGGCAGCCC
 GGCGCAGGGGCATGCGCCTAGAATCCAGCTACTCGGAAGGCCAAGGCAGGAGGACCGCT
 TGAGTCCAGGGATTCAAGGCCAACCTGGGCAATAGAGCGAGACCTGTCTCTTAAAAAAC
 GATGATGATGAACACAGAGGACGGGGCACTGTGCTGGGAGCCAGGGGGCTGGGAGGAGC
 CGAGACCAGCCTTTTACCTCGGGGTTTTGAGGCCAACAGGGACGACAGAGACAGTTTCTA
 GTTAGAGCCTTGGCTCCATTTTTGGATGATTTAGCCCGAGTTCTCTGAGTCTATTTTATG
 CCCCTTACGTACTTTGATAGAACTAAGGAAATAGTGGTTTTGAGTGAAGGGAAAGGAAAC
 CCAGAAACATTTTACGTTGCTTTTACTTCTGTAGTGTAGATTGCCCCGGCCCCCTCTCTGA
 GCCCTGTAGCATCTGTGATAGCTTCTGTCCCTTCATCGGTTTCATGTACAGGGATTTTCT
 TTCCAGGAAGCGGACACGGAGAGTCAGCCCTAATAAATGAGCACATGCCCTGGCTGTAC
 ATTTTGAAACCTG

Gene 584. >ENST00000265301 cDNA sequence

GCACCACAACAACCTGTGGCACTGAATGGCGGTAGAAGATGGCAGCCTGAAATGATCTT
 GAAGGAAGCCATTGAAAACCATCAGAACATGATTAAGCAGTTTAAAG

Gene 585. >ENST00000297873 cDNA sequence

CCCGAGTCCTGTTGCCCAACGCCCCGAGGCGCGCTGGATTGGCGGAGCATGGCCAGGAG
 GAGGGTGGGAGCCTGCCCGAGGTGCGGGCGCGGTGAGGGCCGCGCATGGCATCCCCGAC
 CTGGCCCAAAGCTCCATTTCTATGACCGCTGGGCTCCGGACTACGACCAGGATGTGGCC
 ACCCTGCTGTACCGTGCGCCCCGCTCGCAGTGGACTGCCTCACACAAGCCCTTCCAGGC
 CCGCCCCACAGTGCCCTGATCCTGGACGTGGCCTGTGGCACAGGCCTAGTGGCTGCCGAG
 CTGCGGGCTCCAGGCTTCTCCAGCTGCATGGGGTGGATGGGAGCCAGGGATGCTGGAA
 CAGGCCCAGGCCCCCGGCCTCTATCAGCGCCTCAGCCTCTGCACCCTGGGCCAGGAGCCT
 CTGCCCAGCCCCGAAGGGACCTTCGACGCGGTGCTGATAGTCCGTGCCCTCAGTGACGGC
 CAGGTGCCCTGCAATGCGATACCTGAGCTACATGTACCAAGCCAGGTGGGCTGGTGTGT
 CTGACCACCAGGACCAACTCGTCCAACCTTCAATACAAGGAGGCTCTGGAGGCCACCCTG
 GACAGGCTGGAGCAGGCTGGGATGTGGGAAGGCCTGGTGGCCTGGCCTGTGGACCGCCTG
 TGGACCGCTGGGAGCTGGCTACCTCCGAGCTGGAGGTGGTATCCGGCATCTCTGCCAAGG
 ATGGCTTCATCTCCGGCATTGTCTACCTGTACCGAAAGTGGAAGGCGACCCAGGTTGAGG

FIGURE 1 (CONT'D)

AAGTGAGATCCAGCCCCCAGCCCCAGCTGGCCCCCTGACTCCATGTGGCCTTAGCTGGGC
CCATCTGCTGGGCCTCCTCTGCCTCCCCTGTAAAATGGGACCTCCGAACCAACCCTGCCC
CTCAGAAATGCCCTGCCTATTAAATGAGCTCCC

Gene 586. >ENST00000297926 cDNA sequence

ATGTCCATGGGCCTGGAGATCACGGGCACCGCGCTGGCCGTGCTGGGCTGGCTGGGCACC
ATCGTGTGCTGCGCGTTGCCCATGTGGCGCGTGTGCGCCTTCATCGGCAGCAACATCATC
ACGTGCGAGAACATCTGGGAGGGCCTGTGGATGAACTGCGTGGTGCAGAGCACCGGCCAG
ATGCAGTGAAGGTGTACGACTCGCTGCTGGCACTGCCACAGGACCTTCAGGCGGCCCCGC
GCCCTCATCGTGGTGGCCATCCTGCTGGCCGCTTCGGGCTGCTAGTGGCGCTGGTGGGC
GCCCAGTGCACCAACTGCGTGCAGGACGACACGGCCAAGGCCAAGATCACCATCGTGGCA
GGCGTGTGTTCTTCTCGCCGCCCTGCTCACCTCGTGCCGGTGTCTTGGTGGGCCAAC
ACCATATCCGGGACTTCTACAACCCCGTGGTGGCCGAGGCGCAGAAGCGCGAGATGGGC
GCGGGCCTGTACGTGGGCTGGGCGGCCGCGCGCTGCAGCTGCTGGGGGGCGCGCTGCTC
TGCTGCTCGTGTCCCCACGCGAGAAGAAGTACACGGCCACCAAGGTGTCTACTCCGCG
CCGCGCTCCACCGGCCCCGGGAGCCAGCCTGGGCACAGGCTACGACCGCAAGGACTACGTC
TAA

Gene 587. >ENST00000320531 cDNA sequence

GCTTCTCCAGCTGGAGTAGGTGGGGGAGGCCAGACATGGAGGCCCTTCTCCAGTCAGA
TCCAGCCTTTTGGGGATCCTGTTGCAGGTTACGAGGCTCTCAGTGCTGTTGGTTCAGAAC
CGAGATCACCTCTATAATTTCTGCTCCTCAAGATCAACCTCTTCAACCACTGGGTGTCA
GGGCTGGCCCAGGAGGCCCGGGGTCTGTAACTGGCAGGCCACCTACCCCTGGGAGCT
GCAGCCTGCCCCCTGGGCCAGGCTCTCTGGGCTGGGCTGGCTCTGATACAGGTCCCCGTA
TGGCTGGTGTCTACAGGGACCCAGGCTGATGTGGGCTGGCATGTGGGGCAGCACCAAGGGC
CTGGGCCTGGCCTTGCTCAGTGCTGGGAGCAGCTGGGCCTGTCTGTGGCCATCTGGACA
GATCTGTTTTTGTCTGTCTGCACGGCCTGATGTTGGTGGCCTTGCTCTTGGTGGTAGTG
ACCTGGAGGGTGTGTCTCAGAACTCCCACTGCTTCCGACTGGGCAGGCAGCTCAGTAAGGCC
TTGCAAGTGAACTGCGTGGTAAGGAAGCTCCTGGTACAGCTGAGACGTCTGTATTGGTGG
GTGGAGACTATGACTGCCCTCACCTCCTGGCACCTGGCCTATCTCATCACCTGGACCACC
TGCCCTGGCCTCCCACTGCTGCAGGCTGCCTTTGAGCACACGACCCAGCTGGCCGAGGCC
CAGGAGGTTGAACCCCAGGAGGTCTCAGGGTCTTCTTGTCTGCCCTCACTGTCTGCGTCC
TCGGACTCAGAGTCTGGAACAGTTTTGCCAGAGCAAGAACTCCAGAGAATAAATGTAT
CCCCATCT

Gene 588. >ENST00000310055 cDNA sequence

ATGTGGCCGAAGTTCAACCCAGCGAGATCAAAGTCGTATACCTGAGGTGCACTGGGGGT
GAAGTCAGTGCCACGTCTGCGCTGGGCCCAAGATCGGCCCCCTGGACCTGTCTCCAAAA
AAGGTTGGTGATGACATTGCCAAGGCAACGGGTGACTGGAAGGGCCTGAGGATTACAGTG
AAACTGACCATTGAGAACAGACAGGCCCCAGATTGAGGTGGTGCCTTCTGCTTCTGCCCTG
ATCATCAAAGCCCTTAAGGAACCAAGAGACAGAAAGAAACAGAAAAACATTAAACACAGT
GGGAATATCACTTTTGATGAGATCGTCAACATTGCTCCACGGATGCGGCACCGATCTTTA
GCCAGAGATCTCACTGGAACCATTAAGAGATCCTGGGGACTGCCCAGTCTGTGGGCTGC
AATGTTGATGGCCGCCACCTCATGACATCATAGATGACATCAACAGTGGTGCTGTGGAA
TGCCAGCTAGTTAA

Gene 589. >ENST00000297169 cDNA sequence

AGCGACGCGTGGAGAAGCGGCCACGTGTCTGCCAGAGTCAAGTCCTGTGTTCTTCCCG
CTCCTTACGCATCCGCGGTCCAGGGCGCCCTTTAGCCCCGCTGGTGTTCGCCCCACCCG
GGCCGCGTGAGTGGGGCCCCACGCAGCTCCCCGCACTCCGTGGGCCAACTTGGCCAAGCA
ACTCTGTCCGGGGAGCGGTGCTTGCGGGGGGTGAGTACCGGGCACTGCGCATGCGGAGCT
CCAAATTCAAACAGCTGTTTTAGAGGCTGGAGGGCGGGCGGACTGGTAGCAGCTGGGGC
TAGGAGAGGCTTTCTCTAGGAGGCGGCCGCTCGGGAGCCATGGTGGACCGGGGCCCTCTG
CTCACCTCGGCCATCATCTTCTACCTGGCCATCGGGGCGGCGATCTTCGAAGTGCTGGAG
GAGCCACACTGGAAGGAGGCCAAGAAAACTACTACACACAGAACTGCATCTGCTCAAG
GAGTTCCCGTGCCTGGGTGAGGAGGGCTGGACAAGATCCTAGAGGTGGTATCTGATGCT
GCAGGACAGGGTGTGGCCATCACAGGGAAACAGACCTTCAACAACCTGGAACCTGGCCCAAT
GCAATGATTTTTGCGAGCGACCGTCATTACCACCATTTGGATATGGCAATGTGGCTCCCAAG

FIGURE 1 (CONT'D)

ACCCCCGCCGGTGCCTCTTCTGTGTTTTCTATGGTCTCTTCGGGGTGCCGCTCTGCCTG
 ACGTGGATCAGTGCCCTGGGCAAGTTCTTCGGGGGACGTGCCAAGAGACTAGGGCAGTTC
 CTTACCAAGAGAGGTGTGAGTCTGCGGAAGGCGCAGATCACGTGCACAGTCATCTTCATC
 GTGTGGGGCGTCCTAGTCCACCTGGTGATCCCACCCTTCGTATTTCATGGTGACTGAGGGG
 TGGAACTACATCGAGGGCCTCTACTACTCCTTCATCACCATCTCCACCATCGGCTTCGGT
 GACTTTGTGGCCGGTGTGAACCCAGCGCCAACCTACCACGCCCTGTACCGCTACTTCGTG
 GAGCTCTGGATCTACTTGGGGCTGGCCTGGCTGTCCCTTTTTGTCAACTGGAAGGTGAGC
 ATGTTTGTGGAAGTCCACAAAGCCATTAAGAAGCGGCGGCGGCGACGGAAGGAGTCCTTT
 GAGAGCTCCCCA CACTCCCGGAAGGCCCTGCAGGTGAAGGGGAGCACAGCCTCCAAGGAC
 GTCAACATCTTCAGCTTTCTTTTCCAAGAAGGAAGAGACCTACAACGACCTCATCAAGCAG
 ATCGGGAAGAAGGCCATGAAGACAAGCGGGGTGGGGAGACGGGCCCGGGCCAGGGCTG
 GGGCCTCAAGGCGGTGGGCTCCAGCACTGCCCCCTTCCTGGTGCCCTGGTAGTCTAC
 TCCAAGAACC GGGTGCCACCTTGAAGAGGTGTCAAGACACTGAGGAGCAAAGGCCAC
 GTATCAAGGTCCCAGATGAGGAGGCTGTGGCACGGGCCCTGAAGACAGCTCCCCTGCC
 CCGAGGTGTTTCATGAACCAGCTGGACCGCATCAGCGAGGAATGCGAGCCATGGGACGCC
 CAGGACTACCACCCACTCATCTTCAGGACGCCAGCATCACCTTCGTGAACACGGAGGCT
 GGCTCTCAGACGAGGAGACCTCCAAGTCTCGCTAGAGGACAACTTGGCAGGGGAGGAG
 AGCCCCCAGCAGGGGGCTGAAGCCAAGGCGCCCCCTGAACATGGGCGAGTTCCCCTCCTCC
 TCCGAGTCCACCTTCAACAGCACTGAGTCTGAGCTCTCTGTGCCTTACGAACAGCTGATG
 AATGAGTACAAACAAGGCTAACAGCCCCAAGGGCACATGAGGCAGGGCCGGCTCCCCACCC
 CACCTTTGATGGCCTCTTCCCCCTCACCTAGGGTGTCCCGAGATGACCGGGACGCCTG
 GCCCCCTGGTGGGGGGGAGCCTCGGAAGTGGGAGTGGGGGGCCAGGGGCCTTCCTAACCT
 TCCATCATCCTCAGCTAGATGTATGCCCGGGACAGGGCCTCTGTTCTCCAGCTGAACCAT
 ACCCTGGCTGTGGGGGCATCTGTCTGAGCTTGGCTGGTGTATCTCA CAATGCAAAGACA
 TGCTGGCTGGCGGGACAGGTGGGCAGGACTGACCCTGAGGAGGCCTTGCCTGCAGGGTCT
 TTGTCTCACCATTTGGTGGAGTATCACACGGTTCTCTGAGGTCTGGGGCCTCAGCTGTTT
 AAGTTTACCGGTATTACTGAGCTCGGCATTTGGAGAGGGAGCTCTGAAGTGTCTGGGGAG
 GTACCGCTGTGCGTGGGGTCAAGGTGTTTCCGTACCACAGCAGGAGCAGGGCCCCCGCCA
 TCCCAGCTGTGGGCCTGCCGGTCAGGTGCGGCACCTACTACAAACCGTAGTGGGGTGGAG
 GCTGCTGGAGGTGGGAGTGAGGAGATGAGGGCAGGGTCTCAAACAGTCCTGACTCACAGG
 GCCTGGAAACAAGTCTATGTGGGCCTGGGGCCTGGGGTCTCATCCTCCTTGTGGTCT
 ACTCAGGCCCAGCCAGAGCTGTGTTCCCTGTCTCAGGTCAAGCAGTGGCAGACGCAAGG
 CTTTCTGTGGGCCCCCAAGTGGTAGGAGGGAGAGTAGCAGAGCATGGGTACTGGAAGCC
 GGGACTGCTAGGGCTGGTGGCCAGGGAGCTGCAAGAGTGAGGCTCAGCTCTGGCTGGTTC
 TGCCCTTACCCCTCCTGCCCCCTGAGAACTGCACACCCTGCCCGCTGGCCCCAGGACCT
 GCACTCCCAATCCTGTGTCTTCTCCTTCCCTGTGCCCTGAACAAGGACCTCACTGCCCCG
 CCTTCCCCCTCCCACAGCCCCCTGGGGCTGGCCCACTGTGTCTGAATGTTTTTGTATT
 TTTTGTTTTATTTTTTAAACAACTGCTGTTTTTATATACCTGGAATCTGTTGTTGGCTT
 CAGAGCCAGTGGTTAAAGAGCAGGGTCCCAAGGATTGGGAGATCTAGTGTCTGCCCTCCT
 GCCCTGCAACTCAATTGGGCCTTTTTCGGTGACCTCATCCAAGGCCATGATGTCAAGGGC
 CATGTCCCCAAGCAGAGGTGGAGAAGGGGACACTGAGGTGAGCAAAAGCAGGAAGGGGCA
 TCCACTGCGGGTGACTGGAGGCCGGG CAGGAAGCAAGTCATCAGAGCCGCTCAGCTCCGT
 TCACTCTCTGCCTTCTGCCCCACTACTGTGGGGCAGTGGGGCCAGAGCCACCTCCCCAA
 CATGTGAAGACAGTGATGGGCACGTGCCACACCCCCACTTCTCTAGCCGTTTGAGAGG
 CCGCCACCCAGCAGGGGCCTGAAAAGGAGCAGCCTCGTATTTTTCTGTGAAATGTTTTAA
 TGAACCATGTTGTTGCTGGTTGTCTGGCATCGCGCACACTGTATGTACATACTGGCAAC
 GATGTCAAATGTAATTTATTTTAAACATTTTTACAATAAAACATGAGGTGGACAGGC

Gene 590. >ENST00000292563 cDNA sequence

CGCTCGGCGCCCCGGCCGGGCCACTGGGCCACAGGCCACGCGGCCACGCAGTCCGAGCGG
 GAGCCGAGCCGGGCGGGGCGAGGGCAGCTCCGGAACGTCCCAGGGATGGAAGTGCTTGA
 TGCGGTGCTGCTGGCTGCGGATGTGCGCAAGGAGATGGGATGGAGAGCCTGAGTTGGCAT
 TCGTATAAATGACCTGCCTGGCTCCCACCATGAGTGCTGAGCTTAACGTGCCTATCGACC
 CCTCTGCTCCTGCCTGCCCTGAGCCCCGCCATAAGGGCATGGATTACCGGGACTGGGTCC
 GCCGCAGCTACCTGGAAGTGGTCACTCTAACCACCACTCGGTACAGGCCCTGTCTGTGGC

FIGURE 1 (CONT'D)

GGAAGCTCTACCTGAGCAGGGCCAAGCTGAAGGCCTCCAGCAGGACCTCCGCCCTCCTCT
 CCGGCTTTGCCATGGTGGCCATGGTGGAGGTGCAGCTGGAGACGCAGTACCAGTACCCGC
 GGCCGCTGCTGATTGCCTTCAGCGCCTGCACCAAGGTGCTGGTGGCCGTGCACCTGTTG
 CCCTCCTCATCAGCACCTGCATCCTGCCAATGTGGAGGCCGTGAGCAACATCCACAACC
 TGAAGTCCATCAGCGAGTCCCCGCATGAGCGCATGCACCCCTACATCGAGCTGGCCTGGG
 GCTTCTCCACCGTGCTTGGCATCCTACTCTTCTGGCCGAGGTGGTGTCTGCTGCTGGA
 TCAAGTTCTCCCCGTGGATGCCCGCGCCAGCCTGGCCCCCACTGGCCCTGGGAGTC
 ACACGGGCTGGCAGGCCGCCCTGGTGTCCACCATCATCATGGTGGCCGTGGGCCTCATCT
 TCGTGGTCTTCACCATCCACTTCTACCGCTCCCTGGTGCGCCACAAACGGAGCGCCACA
 ACCGCGAGATCGAGGAGCTCCACAAGCTCAAGGTCCAGCTGGACGGGCATGAGCGCAGCC
 TGCAGGTCTTGTGAGGGGCCGAGGGCCGGGGCTGGGAGCGGCCCTGTGCCCGGGAGTCCG
 CAGAGGCGGGGATTTGTGAGATGCAGACATTTTGCAAGGCTGCCGGGTAGTTCAAGACCA
 AAGTTTTCTCTTGTCTTAATACCATAAGGACTGGATGACTTCTCTGAGATAGAACCGT
 TTGGTTCAATGAGGGACTGTGTTGCTAAGAGCGTTGGGGGCAAAGCCAGGCTGGTTCCTT
 GGCTCGGGGTTTCTGGGTGGGGACACGGTGAAGAGGCTCCAGCGGGACCTGCCCATC
 AGTCTGGGCCAGGAGGGGCTCCAAGCAGCACCCAGCGGTCCGGGGGAGTCTCAGACCCG
 GCATGCGTGGCTGGCAGACCTGGGAGAGCCAGGGCAGGGTTTTGCGTTAGAGAAGGATT
 GCCCCAGAGACCCGTGGTGGACTTCATGGGTGCTGAGTGGCCCGTGTGACAGTGATGACA
 CGAAGGCTTCGGCGTTTGAGTGGGTGCAGGTGCACGCCAGGGCTTGGTGCTTCCCTGCCT
 GGCCCTGGAGGGAGCTGGGTGGCCTGGCTTCAGGGGAAGACAGGAGCCAGGACACACGTC
 AGCCAGCAGGTGTGGGGGGTGTGCAGCCCTCGGCAGTGGGGTCAGGCCCTGGGGGATG
 TTTCCAATGGTGGGCAGCCTGGCCAGGCCGGAGAAGACATGTTACGGGCATCTATCAGA
 TGCCCCCTTGAGGAGGCTGAGTTATTTGAGGGCTGCTGCAAAGTACGCTAGGCTCAAATT
 CTCTTTTCCCAGCCAGAGCCCTGGCCACACGGACTCAGAGGGGCCACCGGGGTGGGGAAA
 GGACCCCTCCCCACCCCCCGCAGCCACTGGCCTCCAGCTCTCGGCCACAGAATGGCCTC
 TAAGGCTGACTCAGCCACTCCCTTGGGCTGTGGCAGCAGGAGGCGGGGGCTCTGGCTCAG
 GCCCCGGAGCCTGTGCAGCTTGGCCATGGCCCTAGGCAGCGAGGGGACAGCCTGGGGGAC
 TTCCTGCCTAGGCAAGGTCAATTGGCCGGGCCTGGCCTGTGGATAGTGGGGCCAGGGGCCG
 GCCCAGGCCAAATGAGTGCCTCCTTGTATGACACCAAGTGACTACAAGGGAGGCAAGA
 CCCCTCCAGGCCTCTCAGCCGACACTGGGTCCACACACACAGTGAAGTGTGCCGTGCAG
 TGCAGGTTCTGGCCTTTTCTTGAAGGCATCTGGTAGACCCGAAGCCACGCTCTCGGGCC
 GCACATGCACGCCCGCAGCACCCAGCTGCCCTGAGCTGCTTGTACAACCAACACCTTTCCC
 CTCTTCTCCAGCTGTAACTGGAGAGTCAGCCATGCCTTGTCTTTTGTCTCATAAATAG
 TCACTGGGGCCGGGCGCAGTGACTCACGCCTGTAATCCAGCACTTTGGGAGGCCTAGGT
 GGGCGGATCACTTGAAGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCTGT
 CTCTACTAAAAAATAAGAAATAGCTGGGCGTGGTGGCGGGCGCCTGTAGCCCCAGC
 TACTTGGGAGGCTGAGGCGGGAGAATGGCAATGGCGTGAACCCGGGAGGCAGAGCTTGCA
 GTGAGCTGAGATGGCGCCACTGCACTCCAGCCTGGGCGACAGAGCCAGACTCCATCTC

Gene 591. >ENST00000326391 cDNA sequence

ATGAACGCCCCCTCCAGCCTTCGAGTCGTTCTTGCTCTTCGAGGGCGAGAAGAAGATCACC
 ATTAACAAGGACACCAAGGTACCCAATGCCTGTTTATTACCATCAACAAAGAAGACCAC
 AACTGGGAAACATCATTAAATCAAACTCCTAAAAGACCCGCAAGTGCTATTTGCTGGC
 TACAAAGTCCCCACCCCTTGGAGCACAAGATCATCATCCGAGTGACAGACCACGCCGGAC
 TACAGCCCCCAGGAAGCCTTTACCAACGCCATCACCGACCTCATCAGTGAGCTGTCCCTG
 CTGGAGGAGCGCTTTCCGGGTGAGGGCGGGGCTGGAGGGGCGACGGGGTGGGCTGGACA
 CTGGCCCGTGTGCCAGGCCTGGGACAGCCCTGGCCTGTTTCTTCGGAGGTCTGGGGGA
 GAGGCGGCAGTGATGGAAGAGCAGGGACTTCCACCACAGGCTCCAGGACATGTGGA CTGA
 GGGGCTGTGGAGTCTGGGCCTGTGGCTCCCGTCTGCCCCATGGGACTTCTGTAGTGCTGC
 AGGGTCCCTCGGGTGTGTGGGCCAGATCGGGGCGGGGACCTACTGTCTTTGGGGGTGC
 TCTTCTACGTCCCTTGTGGTGATTGGCAAGGCCTGGTCTTCCAGGTCTCTGGGAGGCA
 GCTCACCCCCGGGTGGCCCAACCTGTTCTGGCAGGGCGCATGGGAATCTAGAACAGTT
 TAGAGGGGAAAGAGCCACAGC

Gene 592. >ENST00000292614 cDNA sequence

GGTGGCGGCGGGCGGCGGACCTTGGGGTCTGGACGCAACGGCGGGGAGCATGAACGCC

FIGURE 1 (CONT'D)

CCTCCAGCCTTCGAGTCGTTCTTGCTCTTCGAGGGCGAGAAGAAGATCACCATTAAACAAG
GACACCAAGGTACCCAATGCCTGTTTATTACCATCAACAAAGAAGACCACACACTGGGA
AACATCATTAAATCACAACCTCTAAAAGACCCGCAAGTGCTATTTGCTGGCTACAAAGTC
CCCCACCCCTTGAGACACAAGATCATCATCCGAGTGACAGACCACGCCGGAATAAGCCCC
CAGGAAGCCTTTACCAACGCCATCACCGACCTCATCAGTGAGCTGTCCCTGCTGGAGGAG
CGCTTTTCGGGTGGCCATAAAAGACAAGCAGGAAGGAATTGAGTAGGGGCCAGAGGGGGCT
CTGCTCGGCCTGTGAGCCCCGTTTCTACCTGTGCCTGACCCTCCGCTCCAGGTACCACAC
CGAGGAGAGCGGCCGGTCCCAGCCATGGCCCCGCTTGTGGCCACCCCTCACCTGACACC
GACGTGTCCTGTACATAGATTAGGTTTTATATTCTAATAAAGTATAGCGGGAGAGA

Gene 593. >ENST00000292566 cDNA sequence

GCGCGATGGCGGCGGCTGCCGCCGAGACCCCGAAGTCCTTCGGGAATGCGGTTGCAAGG
GCATCCGGACCTGTCTGATCTGCGAGCGGCAGCGCGGCAGTGACCCGCCCTGGGAGCTGC
CCCCAGCGAAAACATACCGTTTTCAATTAAGTCTCCGACACCGGCTGGGCCGTGGGCACAG
AGGAGTCTGACTTTGAGGGCTGGGCCTTCCCTTCCAGGAGTGATGCTGATCGAGGACT
TTGTGACCCGGGAGGAAGAAGCCGAGTTGGTGCGGCTCATGGACCGTGACCCCTGGAAGC
TCTCCAGTCTGGACGGAGGAAGCAGGACTATGGCCCCAAAGTCAACTTTTCGAAACAGA
AGCTAAAGACCGAGGGCTTCTGCGGCCTCCCCAGCTTCAGCCGGGAGGTGGTGCGGAGGA
TGGGCCTCTACCCGGGGCTGGAGGGCTTCCGGCCCGTCGAGCAGTGCAACCTGGACTACT
GCCCCGAGCGGGGCTCTGCCATTGACCCCCACCTGGACGACGCTGGCTGTGGGGGGAGC
GGCTGGTCAGCCTCAACCTCCTGTCCCCCACCGTGCTGTCCATGTGTGCGGAGGCGCCCG
GGAGCCTGCTCCTCTGCTCGGCCCGCTCGGCTGCCCGGAGGCTTGGTGACAGCGTGA
TAGCACCCAGCCGGTCCGTGCTATGCCAGGAGGTGGAGGTGGCCATCCCTTACCCGCC
GCTCCCTGCTGGTCCTCACCGGGGCGGCACGGCACAGTGGAAGCATGCCATCCACCGCA
GACACATCGAGGCCCCGCCGCTCTGCGTCACTTTCCGGGAGCTGTGCGGCTGAGTTTGGCC
CTGGAGGGAGGCAGCAAGAGCTGGGCCAGGAAGTGTGCGGATCGCCCTCTCCTTCCAGG
GAAGACCCGTGTGAACCGCCTCCTTGGCTCCAGACTTGACTGATCCCGGGATTGAAATGA
GGAGCACAGAACAGGGCCTCCTGCAACTCACGGGGTTTCAAGAGAAGATGGCTGACCCCT
GATGCTGTGAGCAGTGAGCCCTGCCAGGAGCAGGTTTTGATGGGAACGTACCTCCAG
GCAGCCCCCTTCCACCTGGACCGTGGCCACACTTTTTTGGTTATTTAGTTTGTACAGTC
TTGGGGACATGGGATCATTTTGAAGCTTAAAAATACTGGGGGCCGGGCACAGTGGCTACA
CCTGTAATCCTAACACTTTGGGAGGCTGAGGTGGGCGGATCACTTGATGCCAGGAGTTG
AGACCAGCCTGGCCAACACGGTGAAAACCCGTCTCTACAAAACTACAAAAATTAGCCGG
GTGTGGTGACTCACAGCCGTAATCCCAGCTACTCGGGAGGCTAAGGTGGGAGAATTGCTT
GAACCTGGGAGGCGGAGGTTGCAGTGAGCCAAGATCACGCCACTGCACTCCAGCCTCGGT
GACAGAGCAAGACTGTTTTGAAAAAATAAATGGGAACATTTTAAATGATTTTCAAC
TTTATTATGCATCTATTTTATGGGGTTTCCCGATATCTCACTGTCCAGTCCCTTCATTT
GGGAATGTGTTGGATTAGGGAACAGGGTTGAAGATTTGAAGTTTAGACTAAAGAGCTGG
GAACAGCTTCAGAGTCAGGCTCAGCCTGACTCATGCTTGACACCCCCACGCCAGGGAGG
GTTGGGGGATGTGAGGAGGGCAGGGAAATCTGAGAGCCTCCTTCAGCCCCATAACGCTG
TTAAACAAGTAGGAAAAATTAAAGCTCCCGGCCAGGCGCGGTGACTCACACCTGTAATCCG
AGTACTTTGCGGGGCTCAGGTGGGAGGATTGCTTGAGGCCAGCCTGGGCAACATAGTGAG
ACCCCATCTCTACAAAAATACAAAATTAGCTGGGCGTCTGGGCATGGTGGCACACAC
CTGTAGTCCCAGCTACTCGAAAGGCTGAGGCGGGAGGATGGCTTTACCACCATGTCAAGG
CTGCAGTGAGCTCATGATCATACCACTGCACTTAACCTTGGCAACAGAGCAAGACCCTGTC
CCT

Gene 594. >ENST00000292616 cDNA sequence

CCTTCGGTCGTTAACGCCACGGGCTCGCGCGGCGCGCCTCCTGGGCTCAGTTACCGC
GGACGCCAGTGCCGGGCTCCAGGAGACGAGGGCGACGCCACACGCCGGGGTGGCCGACT
GGGTGAGCGCGGGCTGCGCCTCCTCGCCATGGGCCCTCCTCGGCGCGGCTGCTAATGCA
GCGCGGGCGCCCCAAGAGCGACCGGCTGGGGAAGATCCGGAGTCTGGACCTGTGAGGATT
GGAGCTGCTTTCCGAGCACCTGGACCCCAAACTCCTGTGCCGCTGACGCAGCTGCAGGA
GCTTGACCTGTCTAAACAACACCTGGAGACGCTGCCGGACAACCTGGGCCTGTCCACCT
GCGTGTCTCCGCTGCGCCAAACAACAGCTGGGGGATGTTACTGCCTTGTGCCAGTTCCC
CAAGCTCGAGGAACTCAGCCTGGAGGGCAACCCCTTCTGACGGTCAATGACAACCTGAA

FIGURE 1 (CONT'D)

AGTCTCCTTTCTCCTGCCCACGCTCCGTAAGGTCAATGGCAAGGATGCGTCCTCAACTTA
CTCTCAGGTGGAGAACCTGAATCGGGAGCTGACCAGCAGGGTCACAGCTCACTGGGAGAA
GTTTCATGGCCACACTGGGTCCTGAAGAGGAGGCTGAGAAGGCCAGGCGGACTTTGTGAA
GTCGGCTGT CAGGGATGTCCGCTACGGGCCCGAGTCCCTCAGCGAGTTCACCCAGTGGCG
GGTGCGGATGATCTCTGAGGAGCTGGTGGCCGCCAGTAGGACCCAGGTGCAAAAGGCTAA
CAGCCCAGAGAAGCCCCAGAAGCTGGAGCTGCCACAAGCCAGGGCCAGACTGGCGGC
CTTGAAACGGCCAGACGACGTCCCACTCAGCCTCTCTCCAGCAAGCGGGCGTGTGCCTC
CCCGTCGGGCCAGGTGGAGGGCAGCCCTGTGGCAGGCTCCGATGGCAGCCAGCCTGCTGT
GAAGCTGGAGCCCCCTGCACTTCCTGCAGTGCCACAGCAAGAACACAGCCCCAGGACCT
CGAGACCCAGCTGTGGGCCTGTGCCTTCGAGCCGGCCTGGGAGGAGGGGGCCACATCCCA
GACCGTGGCCACGTGCGGCGGGGAGGCTGTGTGCGTAATTGATTGCCAGACGGGCATCGT
GCTCCACAAGTACAAGGCACCCGGCGAGGAGTTCTTTTCTGTGGCCTGGACCGCTCTGAT
GGTGGTCACACAGGCTGGCCACAAGAAGCGCTGGAGTGTGCTGGCGGCTGCAGGCCTACG
GGGCCTGGTCCGGCTGCTGCACGTGCGTGCCGGCTTCTGCTGCGGGGTATCCGAGCCCA
CAAGAAGGCCATCGCCACCCCTGTGCTTCAGCCCCGCCACGAGACCCATCTCTTCACGGC
CTCCTATGACAAGCGGATCATCCTCTGGGACATCGGGGTGCCCAACCAGGACTACGAATT
CCAGGCCAGCCAGCTGCTCAGCTGGACACCACCTCTATCCCCCTGCGCCTCTGCCCTGT
CGCCTCCTGCCCCGACGCCCGCCTGTGGCCGGCTGCGAGGGCGGCTGCTGCTGCTGGGA
CGTGCGGCTGGACAGCCCCAAAAGAGGAGGGTGTGTGAAGTGGAATTCGTCTTCTCTGA
GGGCTCCGAGGCATCTGGACGGAGAGTGGATGGGCTGGCATTGTGAATGAGGACATCGT
GGCCTCCAAGGGGAGCGGCCTGGGCACCATCTGCCTGTGGAGCTGGAGGCAGACGTGGGG
GGGCCGGGGCAGCCAGTCCACGGTGGCAGTGGTGGTCTTGGCGCGGCTGCAATGGTCGTC
CACCGAGTTGGCCTACTTCTCGCTCAGCGCCTGCCCTGATAAGGGGATTGTGCTCTGTGG
GGATGAGGAGGGCAACGTGTGGCTCTACGACGTGAGCAACATCTGAAGCAGCCACCCCT
GCTGCCGGCAGCCCTGCAGGCCCCCACAGATCCTGAAGTGGCCACAGCCCTGGGCCCT
TGGCCAGGTGGTGACCAAGACCATGGTGAACACAGTGGTGGCCAATGCCTCCTTCACCTA
CCTCACCGCCCTGACGGACTCCAACATCGTAGCCATCTGGGGGAGGATGTAGCCTCACAC
CATCGCAAAGGACCAGGGACACAGCTAACTAACTTATTAGCTTTGGGCCGATGGGGGTG
GGGGGGGGTCTTTTCAGTGAATATTTTTATTAACTCTACTGTGG

Gene 595. >ENST00000297278 cDNA sequence

CAGTCCAGCTGCTAGTGTGCTGTTGCTGCTACTGACCCGTGTCCAGCCTGGGACAGAC
GTGGAGCACATCAGCTATGTGCCCCAGCTCTCAAACGACACCTTGGCGGGGAGGCTCACC
CTGTCCACCTTCACGCTGGAGCAGCCTCTAGGCCAGTTCAGCAGCCACAACATCTCTGAC
TTGGATACCATCTGGCTGGTGGTGGCCCTCAGCAACGCCACCCAGAGCTTCACGGCCCCA
CGGACAAACCAGGACATCCCTGCTCTGCGCAACTTCTCCAGAGGGGCTACTATCTCACA
CTGAGGGCCCAACCGGGTGTGTACAGACCAGAGGCCAGCTCCATGTCTCCGCGTCGGC
AATGATACCCACTGCCAACCAACAAAATTGGCTGCAACCATCCCTACCAGGACCCGGC
CCCTACAGGGTGAAGTTCTGGTGATGAATGACGAAGGACCCGTGGCTGAAACAAAGTGG
TCCAGCGACACTCGCCTGCAGCAAGCCCAGGCACTTCGGGCTGTCCC CGGCCCCAGAGC
CCGGGCACCGTGGTCATCATCGCCATCCTGTCTATCCTCCTGGCCGTCTCCTCACGGTC
CTCCTGGCTGTGCTCATATACACCTGCTGCAGGAGCACTTCCTATCAGGCCCAGAGGAG
GCAGGGAGTGTGAGAAGATACACCACGCACCTCGCGTTCAGCACTCCTGCCGAGGGGGCT
TCCTGA

Gene 596. >ENST00000306682 cDNA sequence

GGACCCCGGTGTCTGGCTTCCCCGAGCCGGCACCCCGCGATGGCCAAGCGCAGCTCGCT
GTACATCCGCATCGTGGAGGGGAAGAACCTTCCCGCAAGGACATCACTGGCAGCAGCGA
CCCCTACTGCATCGTGAAGGTGGACAATGAGCCCATCATCAGGACAGCCACAGTGTGGAA
GACCTGTGCCCCCTTCTGGGGTGGAGGAGTACCAAGTGCACCTGCCGCCACCTTCCACGC
TGTGGCTTTCTATGTGATGGATGAGGATGCCCTCAGCCGGGACGACGTTATCGGAAAGGT
CTGCCTTACAAGGGACACCATAGCCTCTCACCTAAGGGTTTCAGCGGGTGGGCCCCACCT
GACAGAGGTGACCCCGACGAGGAGGTGCAGGGCGAGATCCACCTGCGGCTGGAAGTGTG
GCCAGGGGCCCGGGCCTGCCGGCTACGCTGCTCTGTGCTGGAGGCCAGGGATCTGGCCCC
AAAGGACCGCAATGGCACATCTGACCCCTTCGTCCGAGTGCCTACAAGGGCCGGACACG
GGAGACCTCGATCGTGAAGAAGTCATGCTACCCACGCTGGAATGAGACGTTTGAATTTGA

FIGURE 1 (CONT'D)

GCTGCAGGAGGGGGCCATGGAGGCGCTGTGCGTGGAGGCCTGGGACTGGGACCTTGTCTAG
 CCGAAACGACTTCCTGGGCAAAGTGGTGATTGATGTCCAGAGACTGCGGGTGGTGCAGCA
 GGAGGAGGGCTGGTTCCGGCTGCAGCCCGACCAAGAGCCGGCGGCATGACGAGGG
 CAACCTGGGCTCCTTGCAGCTGGAGGTGCGGCTGCGGGACGAGACGGTGCTGCCCTCCAG
 CTACTACCAGCCACTGGTGCACCTGCTGTGCCACGAGGTCAAGCTGGGCATGCAGGGCCC
 AGGGCAGCTGATCCCACTCATCGAGGAGACAACAGCACCGAGTGTGCCAGGACGTGGC
 CACGAACCTGCTCAAGCTCTTCTGGGGCAGGGGCTGGCCAAGGACTTCCTGGACCTGCT
 CTTCCAGCTGGAGCTGAGTCGCACCAAGTGCACCAACACCTGTTCCGGAGCAACTCTCT
 GGCCTCAAAGTCCGTGGAGTCTTTTCTGAAGGTGGCCGGGATGCAGTACCTGCACGGCGT
 CCTGGGCCCCATCATCAACAAGGTGTTTGGAGAGAAGAAGTACGTGGAGCTGGACCCAG
 CAAAGTGAAGTTAAGGATGTAGGGTGTCCGGGCTGCACCGCCCGCAGACCGAGGCCGA
 GGTGCTGGAGCAGAGCGCGCAGACGCTGCGCGCCCACTGGGGGGCCCTGCTGAGCGCGCT
 CAGCCGCTCGGTTTCGCGCGTGCCCGCGCTGGTGCAGCGCCACCTTCGCCAGCTCTTCG
 GCGCGTGCGCGAGCGCTTCCCGCGCGCCAGCACGAGAATGTACCGTTTCATCGCCGTCAC
 CAGCTTCCTGTGCTGCGCTTCTTCTCTCCCGCCATCATGTGCCCAAGCTCTTCCACCT
 GCGGGAGCGCCAAGCGGACGCGCGCACAGCCGACCCCTGCTCTGTGGTGGCAAGGCAGT
 CCAGAACGTGGGCAACATGGACACGCGGGCTTCCAGGGCCAAGGAGGCTTGGATGGAGCC
 GCTGCAGCCCACCGTGACACAGGGCGTGGCGCAGCTGAAGGACTTCATCACCAAGCTCGT
 GGACATCGAGGAGAAGGACGAGCTGGACCTGCAGCGGACGCTGAGTTTGCAGGCGCCACC
 TGTGAAGGAGGGGCCACTCTTCATCCACAGGACCAAGGGCAAGGGCCCCCTCATGTCTCT
 CTCCTTCAAGAAAGCTCTACTTCTCCCTCACTACCGAGGCCCTCAGCTTCGCGAAGACGCC
 CAGCTCCAAGAAAAGCGCCCTCATCAAGTTAGCCAACATCCGGGCAGCGGAAAAGGTTGA
 GGAAAAGAGCTTTGGCGGCTCGCACGTATGCAGGTCTATACACGGACGACGCGCGCAG
 GCCCCAGACTGCCTACCTGCAGTGCAAGTGTGTGAATGAGCTTAACAGTGGCTGTCTGC
 GCTGCGGAAGGTGAGCATCAACAACACCGGACTGCTGGGCTCTACCAACCTGGCGTCTT
 CCGTGGGGACAAGTGGAGCTGCTGCCACAAAAAGAGAAGACAGGTGAGGCTGCGATAA
 GACCCGGTACGGGTGACCTGCAGGAGTGAATGACCTCTTGACCATGACCTTGAGGC
 CCAGCTCATCTACCGGCACCTGCTGGGCGTGGAGGCCATGCTGTGGGAGAGGCACCGGGA
 GCTGAGCGGGGGCGCAGAGGCAGGCACGGTGGCCACGAGCCCTGGCAAAGTCCCCGAGGA
 CTCATTGGCCCCGGCTGCTCCGGGTGCTGCAGGACCTCCGCGAGGCCCATAGCTCCAGCCC
 GGCCGGCTCCCCACCTCAGAGCCCAACTGCCTCCTGGAGCTGCAGACGTGAGGCCCGCC
 CTACGCTCCCCCTTGCTGAGTCCCTGCACAGCGCTCGGAGCCCCCAGGACACTCTGCA
 CCCCCTCACCCCGGTCTCTCTCATTAGGGTGCAGGGCCTAGGTCTCTTCCAGGTGGGGGA
 GGGGGGAGAGTCAGGAATAAGGGGATCCCCAGAAGTGCAGAGCTGAGCAGGCTTGGGCCT
 GTCATGGCTGGCCGGAAGTGTCCCAGCTCCCTACAGACGCTGTAGCCATCACTGCTCT
 CCAGGGACCTCTCTCTCTGCCAGGACAGACCCAGCCAGAACCCTGCTAGGATGGGCC
 GCACCCAGGGGTCTGGCCTCAGGGACCTAGAGAATGGGAGGGAGAACGGGGCCCCAGGA
 GACCCGGCCGCCACCCACCCGCTACCCCTTGGGTGCCACAGGGCTGTGCTGTTGCCAACA
 GTAAACCTGCTCTTACTGTCCAGGCTCTGGGGTCTTGTGATGAGGGTCTGGGGAGAAAGT
 GGGCCCGGGGGGACCCCGGAGGCTGTGGTGGATGTGCCGATGATGGGGCTGACAGTATG
 GGCTCTGGGCATCCCTGTTCCCCCTCTTTCTTCCCCCACTCTTCTGGGGTCTGGGGGT
 CCTTTCCCTTCCAGTTGCTGTCCCTGGGTCCCCCTCTTTCATGTCCACAGGCCACAGAG
 CCCAGTGTGTCCAACAGCTGTTCTCTCTCAAAGCAGCCCCCAAGCAAGTCCCTTCTCT
 AGGGTGTCCCTGAGGACAGCACAGAGGCGGGACTCAGAGACCCCATTCCTCTTACGCAG
 CCCTTACCCCAAGCCCTCTAGCTGTGTGGCTGGCAGTGTGGCCACGTAGGGGCTCCCAT
 CCCCCACCATTTGTGTACATGGGCTGCCAGGCTCAGCTCCAGCTGCGTCCACAGTGAC
 CTGGATCAGGGTGGGGACAAGGACTGGACCCCTCTTCTCCAGAAGGCCCTCAGCTCTTGC
 CTTGCCATGCAGTACCTCTTCCCCCTCTGACCCAGATCCCAAAGGTGCACCGTTGCC
 CCAGCCCCCTTCTGGCCCCATGGGGTTTCTCTGATGCCCTTCATCATAGAGGCCGGGGCT
 GGTCCGATGGTTGGCAAACTTGACTCCGGCCAGTCCCCACTCTTGGGGACTTAGAACC
 CCTGCTGTCTGGGATCTGGCCTGCCTTTCTTTGGTCAGTCCCTGTGGTCCCCACAGC
 TCCCCCTCCCATAGGGCTGCCACCAAGCCCTGCCCCAGCCCAAGAGGAGCCCCACTG
 CCTGCGGGCAGTGATGTCTGGCCACCGGCTCACACCAATGACTTGGTCTTGGGGTGGCA
 GAAGCAGCAGGTGACAGGAGCAGGGCCCCCTGTCCCTCTCTTGGCCCTGTGGTACCCAG

FIGURE 1 (CONT'D)

GCCACACGTTGTGCCCGCTCTTGGGGCTGACCGGCTGCAGGGACCACCAGCCGCTGCTAC
TGTGGGCCCCCGGGGAGGGTGGGCAGGGCTTTTGTGGGTTATGAGGACACAGAAGTC
CCTGAGGCCCCCAGACCTGGCTCAGCCAACCTCCTTCTCCCCGGTTGCCCCCACTCT
AAAGCCTCCTCCCTCCCAGCGTCCACTGGCTCCAGGCTCCTCACAACAGCAGCTCATAGA
CACGGGGCATCTCCAGGTGGTCTTAGCCCTCCAGATGTTTCTAGCTCTCCAGGTGGGCGC
TGTTTTTACGTCTGCCTGCATCCATTCAATTCCTTCATTCTCACCTTTATCCTGTTATCT
CTATTTTTTTAAGCTACCAGGAAGGAAAGGGAAGAAGAGATCACGAACTGGGACCCCCA
GAAGGGAGGAGTGGGCTTTGAACCTTAGACATCTACCTCAGAGCTCAAATAGGTTGTTTAA
AATCACATTCAATTTTTCAGATGAAGGGGAACCTTTATAATTTTTTTTTTTTTTTTTTTGA
GACAGAGTCTCACTGTGTTGCCAGGCTGGAGTGCAAATGGCTTGATCTTGTTTCACTGC
AACCTCTGCCTCCCAGGTTCAAGCAATTCTCTTGCTCAGCCTCCCGAGTAGCTGGGACT
AAAGGCGTGTGCCACCATGCCCAGCTAATTCCTTGATTTTTTAGTAGAGACGGAGTTTCTC
CATGTTGGCCAGACTGGTCTCGAACTCCTGACCTCAGGTGATCTGACCGCTTGGCCTCC
GAAAGTGCTGAGATTACAGTTGCGAGCCACTGTGCGTGGCCAGAACTTTATAATAAGAGA
CTTGAAGCTGGGTGTGACGGTGACACCTCTAGTCCAGCTACTCGGGAGGCCAAGACAG
AAGGATCACCTTGAGGCAGGAGTTTAAAGGCCAGCCTGGGCAACATAGCAAAACCTAGTC
CCTAAAATTAAAAAAGGGGAAATAAAGGAGACTTGAAATTTTTGAA
CTAAATAGTGGTGATGGCTACACATTGTGAATGTAATTAAACCACTGAGTTAAACACTT
AAAATGGTTAAAATGGCAAATTGTATGTTATACCTATTTTACTACAATAAAAAGTATAAA
AAAGAGAAGATATTTAAACCAATTGCAACAAAACAAAATGTTAAGAAATGATCTTTTTATG
AGGCAATTGGAAATTTGAACACTAATCAACTATAGGATGATTGGAATTATTAATTTTGTA
AAGGTGTGATAAGATACTGCACTTGGCTGGGCACAGTGGCACATGCCTGTAATCCCAGCT
ACTTGGCAGGCTGAGGTGGGAGAATCGCTTGAGCTCAGGAGTTCGAGACCAGCCTGGGCA
ACGTGGCGAAATCCCCGTCTTTACAAAAACAAACAAACAAACAAAAGATATTGCAGTT
GTGTTGTAAGCGTCCTTATCTTTTCAAGAGCTACATAGTGAATGTTTATGGAATATTTAGG
ATAAATGATATAGGCATTTGGGATTTGCTGCAAAATGACCCAGAGGCAGGGGTGAGGGG
AGAGGTAGAGATGAGACAAGAGGTAGAGGGGAGAGGTAGAGGTAGCCACGAGCTGATAAT
TACAGACAAGAGATGCGGAGTATGTGGGGGCTCATTATCCTGCATAGTCTATCTTTGTAT
ATCTTTGAACCTTTTCAAGAATAAAAAAGCTTAAAAAGTAT

Gene 597. >ENST00000248598 cDNA sequence

CCCTGCTGGGGTGAGCAGCACTGTAAAGATGAAGCTGGCTAACTGGTACTGGCTGAGCTC
AGCTGTTCTTGGCACTTACGGTTTTTTGGTTGTGGCAAACAATGAAACAGAGGAAATTAA
AGATGAAAGAGCAAAGGATGTCTGCCCAGTGAGACTAGAAAGCAGAGGGAAATGCGAAGA
GGCAGGGGAGTGCCCTACCAGGTAAGCCTGCCCTTGGCTTATTCAGCTCCCGAAGCA
ATTTCAGCAGGATCGAGGAGGTGTTCAAAGAAGTCCAAAACCTCAAGGAAATCGTAAATAG
TCTAAAGAAATCTTGCCAAGACTGCAAGCTGCAGGCTGATGACAAACGGAGACCCAGGCAG
AAACGGACTGTTGTTACCCAGTAACAGGAGCCCCGGGAGAGGTTGGTGATAACAGAGTTAG
AGAATTAGAGAGTGAGGTAAACAAGCTGTCTCTGAGCTAAAGAATGCCAAAGAGGAGAT
CAATGTACTTCATGGTGCCTGGAGAAGCTGAATCTTGTAATATGAACAAACATAGAAAA
TTATGTTGACAGCAAAGTGGCAAATCTAACATTTGTTGTCAATAGTTTGGATGGCAAATG
TTCAAAGTGTCCAGCCAAGAACAAATACAGTCACGTCCAGTTCAACATCTAATATATAA
AGATTGCTCTGACTACTACGCAATAGGCAAAAGAAGCAGTGAGACCTACAGAGTTACACC
TGATCCCAAAATAGTAGCTTTGAAGTTTACTGTGACATGGAGACCATGGGGGGAGGCTG
GACAGTGCTGCAGGCACGTCTCGATGGGAGCACCACTTACAGAAACATGGCAAGACTA
CAAAGCAGGCTTTGGAAACCTCAGAAGGGAATTTTGGCTGGGGAACGATAAAATTCATCT
TCTGACCAAGAGTAAGGAAATGATTCTGAGAATAGATCTTGAAGACTTTAATGGTGTCGA
ACTATATGCCTTGTATGATCAGTTTTATGTGGCTAATGAGTTTCTCAAATATCGTTTACA
CGTTGGTAACTATAATGGCACAGCTGGAGATGCATTACGTTTCAACAAACATTACAACCA
CGATCTGAAGTTTTTACCACCTCCAGATAAAGACAATGATCGATATCCTTCTGGGAACGTG
TGGGCTGTACTACAGTTTCCAGGCTGGTGGTTTGTGATGCATGTCTTCTGCAAACTTAAATGG
CAAATATTATCACCAAAATACAGAGGTGTCCGTAATGGGATTTTCTGGGGTACCTGGCC
TGGTGTAAAGTGAGGCACACCCTGGTGGCTACAAGTCCTCCTTCAAAGAGGCTAAGATGAT
GATCAGACCAAGCACTTTAAGCCATAAATCACTCTGTTTATTCTCCAGGTATTCTGTTA
TCTAATAGGGCAATTAATTCCTTCAGCACTTTAGAATATGCCTTGTTTCATATTTTTTCAT

FIGURE 1 (CONT'D)

AGCTAAAAAATGATGTCTGACGGCTAGGTTCTTATGCTACACAGCATTTGAAATAAAGCT
GAAAAACAATGC

Gene 598. >ENST00000259975 cDNA sequence

GCGCACATAGCGACTTGGTGGGCGCGTCCAGTGATGACTGGGGGATCCCGGCAAGTAACA
TGACTAAAAAGAAGCGGGAGAATCTGGGCGTCTCTAGAGATCGATGGGCTAGAGGAGA
AGCTGTCCAGTGTCTGGAGAGACCTGGAGGCCGTGAAGTCCAGACTCCACAGCCGGGAGC
TGAGCCCAGAGGCCAGGAGGTCCCTGGAGAAGGAGAAAAACAGCCTAATGAACAAAGCCT
CCAACTACGAGAAGGAAGTGAAGTTTCTTCGGCAAGAGAACCAGGAAGAACATGCTGCTCT
CTGTGGCCATCTTTATCCTCCTGACGCTCGTCTATGCCTACTGGACCATGTGAGCCTGGC
ACTTCCCCACAACAGCACAGGCTTCCACTTGGCCCCCTTGATCAGGATCAAGCAGGCACT
TCAAGCCTCAATAGGACCAAGGTGCTGGGGTGTTCCTCCCAACCTAGTGTTCAAGCAT
GGCTTCTGGCGGCCAGGCCTTGCTCCCTGGCCTGCTGGGGGGTTCCGGGTCTCCAGA
AGGACATGGTGTGCTGGTCCCTCCCTTAGCCCAAGGGAGAGGCAATAAAGAACACAAAGCTG
TTCCCGT

Gene 599. >ENST00000259729 cDNA sequence

GCGCGACGGTGC GGCTGGCGGACCCGGGCTGGCTTGTGGGGAAACGAACTGAGGGAGGA
GGCGGCGGCTCTGGCAGCGGCGGCAGAGTGTGGCCTGACCCCCCTCCGCTCCCCGGC
AGCTCGCTCTCTCCCTCAGCTTAACGATGAAGAGGAGAACTGACCCAGAATGCACTGCC
CCCATCAAGAAACAGAAAAAAGAGTTGCAGAGCTTGCCCTGAGCCTCAGCTCCACGTCC
GATGATGAACCTCCCTCCTCTGTCTAGTCAATGGAGCAAAAGCATCTACTACAAGCCTTAGT
GGGTCTGATAGTGAGACCGAGGGGAAACAACACAGCTCTGACTCTTTTGACGATGCATTTC
AAAGCAGACTCTCTTGTGGAAGGAAGTTCTTCTCGCTATTCCATGTATAATAGCGTCTCC
CAGAAGCTTATGGCCAAGATGGGCTTCAGGGAAGGTGAAGGATTGGGTAAATACAGCCAG
GGTCGGAAGGACATCGTTGAGGCTTCCAGTCAGAAAGGTGCAAGAGGCTTGGGTCTGACA
CTCCGGGGCTTTGACCAGGAGCTGAACGTGGACTGGCGAGATGAGCCAGAGCCCAGTGCT
TGTGAGCAGGTGTCTGGTTCAGAAATGTACCACTGAAATTCCTGACACTCAGGAAATG
AGCGATTGGATGGTGGTGGGAAAGAGAAAGATGATTATTGAAGATGAAACAGAGTTTTGT
GGGGAAGAGCTGCTTCACAGTGTGTTGCAGTGTAAGAGCGTGTGTTGATGTCTTGATGGG
GAAGAGATGCGGCGAGCTCGGACTCGGGCCAATCCCTATGAGATGATCCGAGGAGTCTTC
TTTCTAAACAGGGCAGCAATGAAGATGGCTAACATGGATTTTGTATTTGATCGCATGTTTC
ACAAATCCGCGGGACTCTTATGGGAAGCCACTGGTGAAGGACCGGGAAGCTGAGCTTCTG
TACTTTGCTGATGTCTGCGCAGGCCAGGTGGCTTCTCAGAGTATGTGCTGTGGAGGAAG
AAGTGGCATGCAAAGGGCTTTGGAATGACTTTGAAGGGCCCTAATGACTTCAAGCTGGAG
GACTTCTACTCTGCTTCCAGTGAAGTCTTCAACCCCTACTATGGTGAGGGTGGGATTGAT
GGAGATGGAGATATCACCCGCCCAGAGAACATCTCTGCTTTTCGGAATTTTGTCTTGAT
AACACAGATCGCAAGGGTGTCCATTTTCTGATGGCTGATGGGGGTTTCTCGGTGGAGGGG
CAGGAGAACCTGCAGGAGATCCTCAGCAAGCAGCTGCTTCTGTGTCTAGTTCTCATGGCG
CTGTCCATTGTCCGGACAGGAGGCCACTTCATCTGTAAACCTTTGACCTGTTTACACCG
TTTAGTGTGGGGCTTGTCTACCTGCTGTACTGCTGCTTTGAACGAGTTTGTCTCTTCAAG
CCTATTACCAGCCGTCCTGCCAACTCAGAGAGGTATGTGGTGTGCAAGGGCCTGAAGGTG
GGCATAGATGATGTTCCGGGATTACCTCTTCGAGTGAATATTAACTCAATCAGCTGCGG
AACACGGATTCCGACGTCAACTTGGTGGTCCCCCTGGAGGTGATCAAGGGAGACCATGAA
TTTACTGACTACATGATACGGTCCAATGAGAGCCACTGTAGTCTGCAGATCAAAGCTCTG
GCGAAAATCCATGCCTTTGTTCAAGACACGACACTGAGTGAGCCTCGACAGGCAGAGATA
CGGAAGGAGTGCTCCGACTCTGGGGGATCCCAGACCAGGCTCGTGTGGCTCCTTCTTCC
TCCGACCCTAAATCGAAGTTCTTTGAGCTAATCCAGGGCACTGAGATTGACATCTTCAGC
TACAAGCCACACTGCTCACCTCTAAACCTGGAGAAGATCCGCCCTGTGTTTGACTAC
CGCTGCATGGTATCTGGCAGTGAGCAGAAGTTCTCATCGGCCTGGGGAAATCCCAGATC
TACACATGGGATGGCCGCCAGTCAGACCGCTGGATCAAGCTAGACCTGAAGACAGAGCTG
CCCCGGGACACTCTGCTATCTGTGGAATTTGTGCATGAGCTGAAAGGGGAGGGGAAGGCC
CAGAGGAAGATCAGTGCCATCCACATCCTCGATGTCCTTGTGCTGAATGGCACCGACGTT
CGGGAGCAGCACTTTAACCAGCGAATTCAGCTTGCCGAGAAATTTGTGAAAGCCGTTTCC
AAGCCTAGTCGGCCCCGACATGAATCCCATCAGGGTGAAGGAGGTGTACAGACTGGAAGAG
ATGGAGAAGATTTTTGTCTAGGTTGGAGATGAAGATCATCAAGGGCTCCAGTGGCACCCCA

FIGURE 1 (CONT'D)

AAGCTCAGCTACACAGGGCGTGATGACCGGCACCTTTGTACCCATGGGCCTCTACATCGTC
 AGGACAGTGAATGAGCCCTGGACTATGGGATTTCAGCAAAAGCTTCAAGAAGAAGTTCTTC
 TACAACAAGAAAACCAAGGACTCTACTTTTGGACCTCCCTGCAGACTCCATTGCCCCATTT
 CACATTTGCTACTATGGCCGGCTCTTCTGGGAGTGGGGGGATGGCATTCTGTGTCATGAC
 TCCCAGAAGCCCCAGGACCAGGACAAGCTGTCCAAGGAGGACGTCCTCTCCTTCATCCAG
 ATGCACAGGGCCTAAGAGCCTCAGAATGTGCCACCCCTGCAGAATGCCCTGTCAATTCCTG
 AGATGGGGCCACCTGGGGCCACAGTGCTGGCTTCTTCCCCCTCTTGAAAAGGGACTGGG
 GAGCATTGCACCTGGCATGAGGAGTGGGTGGCCTCCTCTCCATCCCCCTGAAGAGCTCAGG
 CAGGGCCCTGCAGAGAACACTCATGTTCTTCTGGGACACCTGCCTGGGAACCTTCCCCT
 GCCAGGACTCAGCCTGAAGGAAGCTGCTCCTGAGGCAGGTATGAGGTCACTGCTTAGGGC
 ACGTGGGACTGATGGAGGACATATCAGAGTGGCAGAGCTGTGGGCTCTGCTGTTCTCTCC
 TGCATCCTGTAGACTCACTTTTCTGAGTTCATGCACTGCCCTGAGGGTAGCCATGCCCT
 TGCTTTGCCCACTTTTTATTGGGCCATCCCTGAGTGGGTGGAGACCTGCTGTCTATGAGC
 TGGCCAGGAGAACCTGCTATAAAAAAATCAAGGTTTTGTTTCTTTGAACTTACTCTGTTT
 TGATGCCAAATTGGAGACCATTTTCTTGCTCTCTTCCCCACTCATCTGGCCTTCCCTG
 GAGTTCTTCTAGCCAGAGCTCTGACAGTCCAGCAGGGTGGGAAGGAGGGAGTTTGGGC
 AAACCTCTCATCCCTGATACCACATTGAGATCCTGGGAGCCCTCTTTTCTGACTGAGTATG
 GAGTTGTAGAGCCATCCTAGGTGCCATCCCCCTTTTGGTCCAAACATTGGGCAGCGCTAGA
 TGGCAGGAAGCAGCCTTGAAGACCCGTCTTTCACACAGCAGCAGGGGCCCCAGCAGTA
 ACAAGGGTACCTCCAGGGGTTTGGGTAGCGCTGCCCTCTGGCAGTCATGCACCGCTGTC
 TGCCATAGCCGCTCTAGGGTCTTGGCAGAATTCTGAGCTTGAAGTGCAGCTCCCTTACTA
 CCCTTTCCCTTCTTTTCTTCCCTAATAGGAGGTACAATCTGCTTTTGTGTTGTGTTAA
 GTGGTCACTCCCATTTCTTTATCTTGGCCGACAACACAGAGAGGAGGGGGAGCTGGGCA
 GTAGCTTGGGGTGGGGGTGGGCACCTGTGGTTGTTTTTAATGGGAAATACCTCTCAGAGA
 TGTTTCATGCAGGCTCCCTAGGGCCCCATCCAGTGCCAGGCTGGTTTCCATGGAGATAGG
 GCACTGAGGCTCCCGTGAGGTTGGAATCGACTTCACCATGGGGGTCTTCAGCCAGCATC
 CAGCTCCCCACCCCCAGGCTGGCAGTAGCACTGCTGAGATGCTGTATTTCCACCCAATTC
 TGGGTATATCAGTGTGTCTTGACAGAATCTTGGATCATTAAAGATAAACATATTTTT

Gene 600. >ENST00000274963 cDNA sequence

ACAGATTATGGGTGATTTAGCCTATCTGTCCCAGGCCAGCGTGGCTGAGTGTGCTGGCT
 GGAGGCCTCTCTCTCTGCTTCGAGGGTAGCTGAGATCCACCCCGAAACCGGCAGGATGA
 AGGGGGCAAGTGAGGAGAAGCTGGCATCTGTGTCCAACCTGGTCACTGTGTTTGAGAATA
 GCAGGACCCAGAAGCAGCACCCAGAGGCCAGAGGCTAGAGGACGTGCATCACCGCCCTG
 AGTGACGGCCTCCCGAGTCCCGAGGACACGGGAGAAGACGAATGTGCGGGAGGCCGTGG
 GGTCTGAGCCAGGACAGTCAGCAGGAGGTACCTGAACTCCCTGAAGAACAGCTGTCCA
 GCGAAGCCTGGAGGAAATCTTGCCAGCCTGTGACCCCTCTCAGGATCGGGGACGCAGGAGC
 CAGAGAAGAAGATCGTCCAGGAGCTGCTGGAGACAGAGCAGGCCTATGTGGCGCGCCTCC
 ACCTGCTAGACCAGGCCATGAGTGACCTGTCTGTGGCGGCTACAGGTGTTTTTCCAGGAGC
 TGCTGAAGACAGCCCGCAGCAGCAAGGCCTTCCAGAGGATGTGGTCAGGGTCATCTTCT
 CCAACATCTCCTCCATCTATCAGTTCATTCTCAGTTCTTCTCCTCCAGAGCTGCAGCGGC
 GCCTGGACGACTGGACAGCTAACCCCGCATCGGTGACGTGATCAGAAGCTGGCCCCCT
 TCCTGAAGATGTACAGTGAGTATGTCAAGAACTTTGAGCGAGCGGCTGAGCTGCTGGCCA
 CCTGGACCGACAAGTCTCCTCTTCCAGGAGGTTCTCACTCGCATCCAGAGCAGCGAGG
 CTTTCGGGCAGCCTGACCTGCAGCACCATGCTGGAACCAAGTGAGAGAATTCCACGTT
 ACGAGCTGCTGCTCAAGGAGTACATCCAGAAGCTGCCAGCCAGGCCCCAGACCAGGCCG
 ATGCCCAGAAAGCCCTGGACATGATCTTCTCAGCTGCCAGCACTCCAATGCAGCCATCA
 CTGAGATGGAGCGGCTGCAGGACCTGTGGGAGGTGTACAGCGCCTGGGCCTCGAGGACG
 ACATAGTAGACCCTCTAACACCTGCTCCGTGAGGGCCCCGGTCTCAAGATCTCCTTCC
 GCCGCAACGACCCCATGGAGCGCTACCTTTTCTTGTTCACCAACATGCTGCTCTACTGTG
 TGCCAGGGTGATCAGGTGGGCGCCAGTTCCAGGTGAGGACCCGCATCGATGTGGCCG
 GGATGAAGGTGCGGGAGCTGATGGATGCTGAGTTTCCCCACTCCTTCTGGTGTCCGGGA
 AGCAGCGCACCCCTGGAGCTGCAAGCCCGGTCCAGGAGGAAATGATTTCTGGATGCAGG
 CCTTCAAGCAGCCATTGACCAATCGAGAAGCGGAATGAAACCTTCAAGGCTGCGGCC
 AGGGGCCTGAGGGAGACATCCAGGAGCAGGAGCTGCAGTCTGAGGAGCTGGGCCTCCGGG

FIGURE 1 (CONT'D)

CACCGCAGTGGGTCCGGGACAAGATGGTGACCATGTGCATGCGCTGCCAGGAGCCCTTCA
ACGCTCTGACGCGCCGTGCCACCACTGCCGGGCCTGCGGCTATGTGGTGTGTGCCAGGT
GCTCCGACTACCGGGCCGAAGTAAATACGACGACAACAGGCCAAACCGAGTCTGCCTCC
ACTGCTACGCATTCTCTACTGGAATGTGCTGCCTGAGGCCAAGGAGGACAAGAGGCGGG
GCATCCTGGAGAAAGGGTCTCAGCCACGCCTGACCAGAGCCTGATGTGCAGCTTCCTGC
AGCTCATCGGGGACAAGTGGGGCAAGAGCGGCCCCCGGGGCTGGTGTGTGATCCCTCGGG
ATGACCCCCTCGTGCTCTATGTCTATGCTGCCCCCTCAGGACATGAGGGCTCACACCTCCA
TCCCCCTGCTGGGCTACCAGGTGACTGTTGGGCCCCAGGGGGACCCTCGGGTCTTCCAGC
TACAGCAGTCAGGCCAGCTCTACACCTTCAAGGCCGAGACGGAGGAGCTGAAGGGCCGCT
GGGTGAAGGCCATGGAGCGGGCGGCCAGTGGCTGGAGCCCCAGCTGGCCCAACGATGGGG
ACCTGTCCGACTGAGCCACTGCCAGCCGCTCTCCTGCCCCACCTCTCCCCACCCTGAACCC
AGCTCCTGCCACAGACTGACCCTGTGGCCTCAGTGACCCACTGCCCCAAGTGGTGTCTTTC
AGAGAATTGATTAGCCATCTGCGCCAGGCCACGTGTCCCGATCTGGGATTAGAAAATA
TGGGTCCATTCTTTCTAGAAAGGGGACAACCAAGTGTCTCAGTTTGCCTTGCGGGGAGG
GGGCTCCTGGGCCATGGGACTTCCAGTGCTAAAACTGGGAAAGCCCCAGGTAACCCGGA
CTGGTGGTCAACATAGTATGGTTTTTCAATTTGTATCTCCTGGGGAGCTTTTAAAGAGTAC
TGGTGAAAAACACATAGTAAATTAATTTTAAAAATGT

Gene 601. >ENST00000297147 cDNA sequence

AAATGGCGGCAGTTGGTGTGTTCTCGGTTTTCTCGGCTGCTGGGTGGTCCCGCCACAGC
TGGGGCGGCCTATGTGAGTGGCGCCCATGGAGAAGAGGGCTCAGCTCGCATGTGGAAGA
CCCTCACCTTCTTCGTCGCGCTCCCCGGGGTGGCAGTCAGCATGCTGAATGTGTACCTGA
AGTCGCACCACGGAGAGCACGAGAGACCCGAGTTCATCGCCTACCCCATCTCCGCATCA
GGACCAAGCCGTTTTCCCTGGGGAGATGGTAACCATACTCTATTCCATAACCCTCATGTGA
ATCCACTTCCAACCTGGCTACGAAGATGAATAAAGAGAATCTGGACCACTACCCGGGCACC
AGGGACCACAGCACTGGTTTTGGACCATTACTCTGCACATGGACCAGAAAAAGTATATGGG
ACCTTAAGCTCACCTTCTTTACTTGTATCAAATGATGACTGGTATACTGGTCTCCCATCC
CTTTGCTTGTGGCGGGAGATGGCTTAAATAAATAACTTAAACTT

Gene 602. >ENST00000329942 cDNA sequence

CACGAGCTTGGTGATGAAGTCCTTTCAGCTGCGCCACGCCCTGGCGCACGGTGGGCTGCAG
CGGCTCCATCCAAGCCTCCTTGGCCCTGGAAGCCGGCGTGTCCATGTTGCCACGTTCTG
GACTGCCTGGAGGTGACAGCAGGAAGGACCAGGTTCTGCTAG

Gene 603. >ENST00000331556 cDNA sequence

GCCCAAGAAAAGCAGGATTTTCGTTTCAGCACTACTCCCAGATCGTTAGGGTGCTGACTGAG
GATGAGATGGGGCACCCAGAGACAGGAGATGCTACTGCCCCGGCTCAAGGAGGTCCTGGAG
TACAATGCCATTGGAGGCAAGTATCACCGAGGTTTGATGGTGCTAGTAGCGTTCCGGGAG
CTGGTGGAGCCGAGGAAACTGGATGCTGATAGTCTCCAGTGGGCACCGACTGTGGGCTGG
TATGCGCAACTGCTGCAAGCTTTCTTCTGCTGGTGGCAGATGACATTATGGATTTCATCCCTT
ACCTGCCAGGGACAGATCTCCTGGTATCAGAAGCTGGGCATGGGTTTGGATGCCATCAAT
GATGCTATCCTTCTGGAAGCATGTATCTACTGCCTGCTGAAGCTGTATTGCCGGGAGCAG
CCCTATTACCTGAACCTGATGGAGCTCTTCCAGCAGAATTCTTATCAGACTGAGATTGGG
CAGACCCTCGACCTCATCAACCCCCCAGGGCAATGTGGATCTTCGCAGATGCACCGAA
AAAAGGCACAAATCTGTTGTCAAGTACAAGACAGCTTTCTACTCCTTCTACCTTCTGTGA
GCTGCAGCCATGTACATGTCAAGAATGGATGACAAGAAGGAGCACACCAGTGCCAAGAAG
ATCCTGCTGGAGATTCAAGAGTTCTTTTCAGATTTCAGGATGATTACCTTGACTTCTTTGGG
GACCCAGTGTGACTGGCAGAGTTGGCAATGACTTCCAGGACAACAAATGCAGCTGGCTG
GTGGTTTCAGTGTCTGTACAGGCCACTCCAGAACAGTACCAGATCTGAAGGAAAATTAC
AGGCAGAAGGAGGCCGAGAAGGTGGCCCGGGTGAAGGCACTATACGAGGAGCTGGATCTG
CCAGCCGTGTTCTTGCAGTATGAGAAAGACAGTTACAGCCACGTTATGGGTCTCATCGAA
TAG

Gene 604. >ENST00000307569 cDNA sequence

ATGGCCATGGCCCCAAGCCCTTCCCTGGTGCAGGTGTACACCAGCCCCGAGCTTGGCTA
TGGCAGGATGGGCTGGGCACCTGGCACCCCTACAGTGCCACCATCTGCAGCTTCATCGAG
CAGCAGTTTGTCCAGCAGAAGGGCCAAACGTTTTGGGCTTGGGAGCCTGGCCACAGCATC
CCCTTGGGCCAGGCAGACCCCTCGCTGGCCCGTTACATTATTGACCTCCCCAGCTGGACC

FIGURE 1 (CONT'D)

CAGTTCCGCCAGGACACCGGCACCATGCGGACTGTGCGGAGACACCTGTTCCCCCAGCAC
TCAGCCCCTGGCCGAGGTGTCTGTCTGGGAGTGGCTGAGCGACGATGGCTCCTGGACCGCC
TATGAAGCCGGCGTCTGTGACGATCTGGAGCAGCAGGTGGCCAGGGGCAACAGCTCGTG
GACTTGGCCCCCTGGGGTACAACCTACACTGTCAACTACACCCACACGCAGACCAAC
AAGACTTCCAGCTTCTGCTGCAGCGTGCGGCGCCAAGCAGGGCCGCCTTACCCAGTGACC
ACCATCATCGCTCCGCCGGGCCACACAGGCGTGCCTGCTCTTGCCACCAGTGCCTCAGT
GGCAGCAGAACTGGCCCTGTATCAGGCCGCTACCGCCACTCCATGACCAACCTCCCTGCA
TACCCCGCCCCCAGCACCCCCCCCACAGGACCGCTTCTGTGTTTGGGACCCACCAGGCC
TTTGCACCATAACAACAAACCTCACTCTCCGGGGCCCGGTCTGCGCCAGGCTGAACACC
ACGAACGCCTGGGACGCAGCTCCTCCTTCCCTGGGGAGCCAGCCCCTTACCGCTCCAGC
CTCTCCACCTGGGACCGCAGCACCTGCCCCCAGGATCCTCCACCTCCGGTGCAGTCAGT
GCCTCCCTCCCCAGCGGTCCCTCAAGCAGCCCAGGGAGCGTCCCTGCCACTGTGCCCATG
CAGATGCCAAAGCCAGCAGAGTCCAGCAGGCGCTCGCAGGT

Gene 605. >ENST0000162863 cDNA sequence

ATGGAGAAGCTGTCCGCAGCGTCTGGATACAGCGATGTGACTGACAGCAAGGCAATCGGG
CCCCTGGCTGTGGGCTGCCTCACCAAGTGCAGCCACGCCTTCACCTGCTGTGCCTCCTG
GCCATGTACTGCAACGGCAATAAGGGCCCTGAGCACCCCAATCCCGAAAGCCGTTCACT
GCCAGAGGGTTTTCCAGTGCTACCTTCCAGACAACGCCCAGGGCCGCAAGGGGCTTCCAG
AACCCGGAGACACTGGCTGACATTCCGGCCTCCCCACAGCTGCTGACCGATGGCCACTAC
ATGACGCTGCCCCTGTCTCCGGACAGCTGCCCTGTGACGACCCATGGCGGGCAGCGGA
GGCGCCCCCTGTGCTGCGGGTGGGCCATGACCACGGCTGCCACCAGCAGCCCTTCTGCAAC
GCGCCCCCTCCCTGGCCCTGGACCTATCGTACAGAACCTGCTAAGGCCATCAAACCTATT
GATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCAGTGGTACTGAGTCTAAGCACTGCA
GTGAAGGAGTTAGTAGAAAACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAGCTT
AAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAAGAA
AATTTCGAAGGCTTAATGATGTCAACATTTCTACCTGCCACGTATCGGCGAAGGTTGGGA
CTCGACTGGTGTGTTGATCAGCATGGGAAAATCATCCAGAAAACCCCCCTACCCCCACCCA
GAGGGACCACAGTCAGCGTGA

Gene 606. >ENST0000333996 cDNA sequence

CAGCTCTACATCCTGTAGATTCTCACACCCAGGGCCTCCTTCGGCCTCTTCTCAGGGGAG
TCTCAGAGCAGGAGCCTCTCTCCCTTGCCCAGTGAAAGTCATTCTCCCCTCTCTCATCCA
CCTCACCCGCGGCCACAATCCTGAGACTTTCCCCCGGGAGGCACACTTCTCCTCGCTGCC
CTGCTGCTCTCACGGAAACCCTGTCTGCTTCTCACACTGACATCTGCTCTCTAATCACA
GAGGATCCTGTATTAAAGACTCTGGCCTGGGACAAAGATCTGAGGGTGTCTGGACAAG
TATCTCCTGGCTATGGTCATAGCGTATTTTCAGCCGGGCGGGCCTCCCTCCTGGCAATAC
CAACGCATTATTTCTTCTGCTCTCTATCTGGCCAATGACATGGAGGAGGACGACGAG
GCCCCCAAACAAACATCTTCTACTTCTGCTGACGAGGAGACCCGCTCTCATATACCCTTG
CTCAGTGAGCTTTGGTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAACTGC
TCTCAGATAGCCTTGTTCCGGAAGTATCGGTTCCACTTCTTTTGTTCATGCGCTGCAGG
GCTTGGGTTTTCCCTGGAGGAGTTGGAAGAGATCCAGGCTTATGACCCAGAGCACTGGGTG
TGGGCGCGAGATCGCGCCACCTTTCCTAG

Gene 607. >ENST0000333628 cDNA sequence

GAAGAGTACCCTGATTGCATTGTGAACATCTTCAGTGTAGTGCCCTTCACCCAAAGACACC
AAGGTCGAGCCCTACAGTGCCACCCTCTCTGTCCATCAGTTGGTAGAGAACACTGATGAG
ACGTATTCCATTGACAATGAAGCCCTGTATAACATCTGCTCCCACTCTGAAGCGGACC
ACACCAACCTACAGGGATATGAACCCCTCGTCTCAGCAACCATGAACAGTGTATCACC
TGCTCTGTTTCCCTGGCCAGCTCAATGCCGACCTCCACAAGTTGGCAGTCAACATGGTC
CCCTTCCACATCTCCATTTCTTTATGCCTGGCTCTTCCCCTCTCACCAGCCATGGAAGC
CAGCAGTATCAACTCACAGTGTCTGAATTACCCAGCATGTCTTCAATGCCAAGAACATG
ATGGCTGCCTGTGAACCCCGCCATGGCTTATACTTCACTTGGCTGCTGTCTTCACTGGT
CAGATATCCATGAAGGACGTCAATGACAAAATGTTAAATATGCAAAACAAAACAGCAGC
TACTTTGTGGAATGGATCTCCAACAACGTCAAGAACAGTGACATCCCATCTCATGGCCTG
AAAATGTCATTCACTGGTATTGTCAACATGGTCATCCAGAAGCTCTTCAAGTACATCGCA
GATCAG

FIGURE 1 (CONT'D)

Gene 608. >ENST00000251624 cDNA sequence

CCTGCTTTGTTTCTTGTAAGTATTTCTTTAGTACAGAACCTGCTAAGGCCATCAAACCT
ATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACT
GCGGTGAAGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAG
CTTAAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAA
GAAAACCTTCGAAGGCTTAATCCTTACTTTACAGTCTCTTTAGCTCTGAAACATCACACA
TCTAAGATTGAGAGTTTGCCGACCTAACTCGGGTTGAACTTTTGGCTTTTCAGGGGAAA
GCTCTGAGCTCACTTTGTGCACTGAGTGATGTACCATTCTACCTGCCACGTATCGGCG
AAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGAAAACCCCTAC
CCCCCCCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTACCTGTGCGC
CATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCCTTCGCCTTCTGC
CGTGATTGTGAGTTTCTTGAGGGCTCCCCAGCCATGCTTCCTGTACAGCCTGCAAACTG
GTAAGTGGAGAGCTACGGGCATGCAGAAGTTGGAAGACGAGGGAAGGCATCACAGAGGCT
GTGGGGTGA

Gene 609. >ENST00000305928 cDNA sequence

TGCATCCTTGGAGAGAGCTGAGAGCTCGAGGTACAGAACCTGCTAAGGCCATCAAACCTA
TTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACTG
CGGTGAAGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCACTAATATTGGATCTAAAG
CTTAAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAA
GAAAACCTTCGAAGGCTTAAGTAAGGTCACCATTTCTACCTGCCACGTATCGGCGAAGGTT
GGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGAAAACCCCTACCCAC
CCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTACCTGTGCGCCATAAG
GAATTTCAAAGGAATATTAAGAAGTACAGAACCTGCTAAGGCCATCAAACCTATTGATCG
GAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACTGCGGTGAA
GAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAGCTTAAGGA
CTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAAGAAAACCT
CGAAGGCTTAAGTCTGAAACATCACACATCTAAGATTGAGAGTTTGCCGACCTAACTCG
GGTTGAAACCTTTTGGCTTTTCAGGGGAAAGCTCTGAGCTCACTTTGTGCACTGAGTGATGT
CACCATTTCTACCTGCCACGTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATCACGA
TGGGAAAATCATCCAGAAAACCCCTACCCACCCAGAGGGACCACAGTCAGCGTGAA
GCAGTTATTTTCTACGCTACCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGAA
ACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTGTGAGTTTCTTGAGGGCTCCCCAGC
CATGCTTCCTGTACAGCCTGCAAACTGACTCCTAGAAGTACCCACCCACCCCTGCTC
CTTGAGGACAACGTGATCACTGTATTGAGCTCTGTCAAGAATGGTCCAGGTTCTTCTAG
ATGA

Gene 610. >ENST00000320371 cDNA sequence

ATGTTGAAGCGAGGACGTGGTGGGTCTCTGGTGTGAAATTCCAGATTTCTTGGGTCTT
CTGGTAGGAGTGATCAGTTGTGCTGACAACACAGGAGCCAAAACCTGTATGTCATCTCC
AAGGGGATCAAGGGATGGCTGAAACAGACTTCCCACTGCTGGTGTGGGTGACACGGTGATG
GCCACAGTCAAGAAAGGCAAAACAGAGCTCAGAAAAAAGGTACATCCAGCAGTGGTTATT
CGACAACGAAAGTCATACCGCAGAAAAGATGGCGTGTCTTTATTTTGAAGATAATGCA
GGGGTCACAGTGAAACAATAAAGGCGAGATGAAAGGTTCTGCCATTACAGGACCAGTAGCA
AAGGAGTGTGCAGACTTGTGGCCCTGGATTGCGTCCAGTGCTGGCAGCATTGCATGA

Gene 611. >ENST00000335396 cDNA sequence

ATGGTCATAGCGTATTTTCAGCCGGGCCGGCCTCCCCTCCTGGCAATACCAACGCATTTCAT
TTCTTCCTGGCTCTCTATCTGGCCAATGACATGGAGGAGGACGACGAGGCCCCCAAACAA
AACATCTTCTACTTCTGTACGAGGAGACCCGCTCTCATATACCTTGCTCAGTGAGCTT
TGGTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAACTGCTCTCAGATAGCC
TTGTTCCGGAAGTATCGGTTCCACTTCTTTTGTTCATGCGCTGCAGGGCTTGGGTTTCC
CTGGAGGAGTTGGAAGAGATCCAGGCTTATGACCCAGAGCACTGGGTGTGGGCGCGAGAT
CGCGCCACCTTTCTAG

Gene 612. >ENST00000302439 cDNA sequence

CCTGCTTTGTTTCTTGTAAGTATTTCTTTAGTACAGAACCTGCTAAGGCCATCAAACCT
ATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACT

FIGURE 1 (CONT'D)

GCGGTGAAGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAG
CTTAAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAA
GAAAACCTTCGAAGGCTTAATCCTTACTTTACAGTCTCTTTAGCTCTGAAACATCACACA
TCTAAGATTTCGAGAGTTTGCCGACCTAACTCGGGTTGAAACTTTTGGCTTTAGGGGAAA
GCTCTGAGCTCACTTTGTGCACTGAGTGATGTCAACATTTCTACCTGCCACGTATCGGCG
AAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGAAAACCCCTAC
CCCCACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTACCTGTGCGC
CATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCTTCGCTTCTGC
CGTGATTGTGAGTTTCTTGAGGGCTCCCAGCCATGCTTCCTGTACAGCCTGCAAACTG
GTAAGTGGAGAGCTACGGGCATGCAGAAGTTGGAAGACGAGGGAAGGCATCACAGAGGCT
GTGGGGTGA

Gene 613. >ENST00000314850 cDNA sequence

AACTGATTTCTTTAGTACAGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGT
CCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACTGCGGTGAAGAAGATAGT
AGGAAACAGTCTGGATGCTGGTGCCACTAATATTGGATCTAAAGCTTAAGGACTATGGAA
TGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAAGAAAACCTTCGAAGGCT
TAAGTAAGGTCAACATTTCTACCTGCCACGTATCGGCGAAGGTTGGGACTCGACTGGTGT
TTGATCACGATGGGAAAATCATCCAGAAAACCCCTACCCCCACCCAGAGGGACCACAG
TCAGCGTGAAGCAGTTATTTTCTACGCTACCTGTGCGCCATAAGGAATTTCAAAGGAATA
TTAAGAAGTACAGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAG
ATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACTGCGGTGAAGAAGATAGTAGGAAAC
AGTCTGGATGCTGGTGCCACTAATATTGATCTAAAGCTTAAGGACTATGGAATGGATCTC
ATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAAGAAAACCTTCGAAGGCTTAAGTCTG
AAACATCACACATCTAAGATTTCGAGAGTTTGCCGACCTAACTCGGGTTGAAACTTTTGGC
TTTCAGGGGAAAGCTCTGAGCTCACTTTGTGCACTGAGTGATGTCAACATTTCTACCTGC
CACGTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAG
AAAACCCCTACCCCCACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACG
CTACCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCC
TTCGCTTCTGCGGTGATTGTGAGTTTCTTGAGGGCTCCCAGCCATGCTTCCTGTACAG
CCTGCAAACTGACTCCTAGAAGTACCCACCCACCCCTGCTCCTTGAGGACAACGTG
ATCACTGTATTTCAGCTCTGTCAAGAATGGTCCAGGTTCTTCTAGATGA

Gene 614. >ENST00000311139 cDNA sequence

ATGTGGGGTAGAAGAAGAAAACCTTCGAAGGCTTAATGATGTCAACATTTCTACCTGCCAC
GTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGAAA
ACCCCTACCCACACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTA
CCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCCCTC
GCCTTCTGCGGTGATTGTGAGTTTCTTGAGGGCTCCCAGCCATGCTTCCTGTACAGCCT
GCAAACTGACTCCTAGAAGTACCCACCCACCCCTGCTCCTTGAGGACAACGTGATC
ACTGTATTTCAGCTCTGTCAAGAATGGTCCAGGTTCTTCTAGATGA

Gene 615. >ENST00000329846 cDNA sequence

GTAAGTCTGGGCCGGAAGGTGGAGGTCGTACGCTGTGAGGGCATCATATTTCTGGCCAT
TTCTACAGATACAAGTTGAAGTACCTGGTCTTCTCCGCAAGCAGATGAACACCAACCT
TCCCAGGCCCCCTACCACTTCCGGGCCTCTAGCCGCACCTTCGCGTGACCCGAGGCATG
TTGCCCCACAAGACAAAGCAAGGCCGGGCCCTGGAGCGCCTCAAGGTGTTTGACGGC
ATCCACCGCCCTATGACATGAAAAAGCGGATGGTGGTTCTGCTGCCCTCAAGGTGATG
CATCTGAAGCCTACAAGAACTTTGCCTACGTGGGGCGCCTGGCTCACGAGGTTTGCTGT
AAGTACCTGGCAGTGGCATCTACCTGAAGGAGAAGAGGAAGGAGAAAGCCAAGATCCAC
TATCGGAAGAAGAAACAGCTCATGAGGCTATGGAACCGGGTGAAAAGAACGTGGAGAAG
AAAAGTACAAATACACAGAAGCTCTCAAGACCCATGGACTCCTGATCTGA

Gene 616. >ENST00000311251 cDNA sequence

ATGGAAGTCCACATCCTGGAGCACCGGCTGCAAGTTGCCAGCGTCGCCAAGGAGAGTATC
CCGCTGTTACCTACGGCCTGATCAAACCTTGCTTCTGCTCCTCCAAGACCAGGTGCAAG
TTCTTCAGTCTGACTGAGACGCCAGAGGATTACACTATCATTGTGATGAGGAAGGATTC
CTAGAGCTGCCCTCCTCGGAGCACCTGAGTGTGGCAGATGCCACCTGGCTGGCCCTGAAC

FIGURE 1 (CONT'D)

GTGGTGTCCGGCGGTGGCAGCTTCTCCAGCTCCCAGCCCATCGGCGTGACCAAGATCGCC
AAGTCAGTCATCGCCCCACTGGCTGACCAGAACATATCCGTGTTTCATGCTGTCCACGTAT
CAGACAGACTTTCATCCTGGTGC GCGAGCGGGACCTGCCCTTTGTCACCACACATTGTCA
TCAGAGTTCAACATCCTGCGGGTCTCAATGGCGAGACCGTGGCAGCCGAGAACCTCGGC
ATCACC AATGGCTTCTGTGAAGCCCCAAGCTGGTCCAGAGGCCAGTCATCCACCCACTGTCC
AGCCCGAGCAACAGGTTCTGTGTCAACAGCCTGGACCTTGACAGCTGCCTGCTGTTGCC
ACACTCCTCATGGATGTATGTTCTACTCCAATGGAGTGAAGGACCCCATGGCCACTGGG
GATGACTGCGGCCACATCCGCTTCTTCTCCTTCTCCCTCATCGAGGGCTACATCTCCCTG
GTGATGGACGTGCAGACGCAGCAGAGGTTTCTAGTAACTTGCTGTTCAAGCGCATCC
GGAGAGCTCTGGAAGATGGTCCGGATTGGAGGACAGCCCTGGGGTTTGATGAGTGTGGC
ATCGTGGCC CAGATCTCAGAGCCCTTGGCTGCTGCAGACATCCAGCCTACTACATCAGT
ACTTTCAAGTTTTGATCATGCACTTGTCCCCGAAGAGAACATCAATGGTGTATCAGTGCC
CTGAAGGTCAGCCAAGCAGAGAAGCACTAG

Gene 617. >ENST00000274884 cDNA sequence

CGCTCGTATCAGGCTTCATGGCGGCGCGGCCACTGTCCCGGATGCTGCGGCGGCTTCTGA
GGTCCAGCGCCCCGAGCTGCAGCTCAGGGGCTCCGGTGACCCAGCCCTGCCCCGGGGAGT
CCGCGCGAGCTGCCTCGGAGGAGGTGTCCAGGCGGAGGCAGTTCTGCGGGAGCATGCGG
CCCCCTTCTCCGCTTCTCTACAGACAGCTTCGGCCGGCAGCACAGCTACCTGCGGATCT
CCCTCACAGAGAAGTGCAACCTCAGATGTCACTGTCATGCCCAGGAGGGGGTCCCGC
TGACCCCCAAAGCCAACCTGCTGACCACAGAGGAGATCCTGACCTCGCCCGGCTCTTTG
TGAAGGAAGGCATCGACAAGATCCGGCTCACAGGTGGAGAGCCGCTTATCCGGCCGGACG
TGGTGGACATTGTGGCC CAGCTCCAGCGGCTGGAAGGGCTGAGAACCATAGGTGTTACCA
CCAATGGCATCAACCTGGCCCGGCTACTGCCCCAGCTTCAGAAGGCTGGTCTCAGTGCCA
TCAACATCAGCCTGGACACCCTGGTGCCTGCCAAGTTTGAGTTTATTGTCCG CAGGAAAG
GCTTCCACAAGGTCATGGAGGGCATCCACAAGGCCATCGAGCTGGGCTACAACCCTGTGA
AGGTGAACTGTGTGGTGTATGCGAGGCCTTAACGAGGATGAACTCCTGGACTTTGCGGCCT
TGACTGAGGGCCTCCCCCTGGATGTGCGCTTCATAGAGTATATGCCCTTTGATGGCAACA
AGTGGAACCTTCAAGAAGATGGTCAGCTATAAGGAGATGCTAGACACTGTCCGGCAGCAGT
GGCCAGAGCTGGAGAAGGTGCCAGAGGAGGAATCCAGCACAGCCAAGGCCTTTAAAATCC
CTGGCTTCCAAGGCCAGATCAGCTTCATCACATCCATGTCTGAGCATTTCTGTGGGACCT
GCAACCGCCTGCGAATCACAGCTGATGGGAACCTCAAGGTCTGCCTCTTTGGAACTCTG
AGGTATCCCTGCGGGATCACCTGCGAGCTGGGGCCTCTGAGCAGGAGCTGCTGAGAATCA
TTGGGGCTGCTGTGGGCAGGAAGAAGCGGCAGCATGCAGGCATGTT CAGTATTTCCAGA
TGAAGAACCGGCCCATGATCCTCATCGAGTTATTTTTTGATGTTCCCAATTCCCCACCAG
CCAATCCAAGCATTTTCTCCTGGGACCCGCTCCATGTT CAGGGTCTAAGACCCAGAATGA
GTTTTCTCAGCCAGGTGGCCACTTTATGGAAAGGATGCAGGGTCCCCCAGACCCCTCCTC
TAGCC CAGCAGCGGCTGGGGTCTGGCTCCTTT CAGAGACACTACACTTCCCGTG CAGACT
CAGATGCCAACTCAAAGTGCTTAGCC CAGGTTCTGGGCTTCTGCTGCCCCCTCAGGAC
CCCAGCTAACCTCAGAACAACTAACTCATGTGGACTCGGAAGGACGGGCAGCTATGGTAG
ATGTGGGCAGGAAGCCAGACA CAGAGCGGGTGGCTGTGGCTTCAGCCGTGGTCCCTCCTGG
GACCGGTAGCCTTCAAGCTTGTCCAGCAGAAC CAGCTCAAGAAAGGAGATGCCCTAGTGG
TGGCCCAGCTGGCTGGAGTCCAGGCAGCCAAGGTGACCAGCCAGCTGATCCCTCTGTGCC
ACCACGTGGCCCTGAGCCACATCCAGGTGCAGCTGGAGCTGGACAGCACACGCCATGCCG
TGAAGATCCAGGCATCTTGCCGGGCTCGGGGCCCCACCGGGGTGGAGATGGAGGCCCTGA
CCTCTGCTGCAGTGGCCGCCCTCACCTGTATGACATGTGCAAGGCTGT CAGCAGGGACA
TCGTGTTGGAGGAGATCAAGCTCATTAGCAAGACTGGTGGTCAGCGGGGGACTTCCATC
GGGCTTAGCACCTGCCCTTCTCACC CATGGCCACCCAGGCCTGGAGCTGGGATGCAATG
TAGGCTGAGGGAAAGACGT CAGGTTCTTTAATCACAGTCACTGTTTGTTTACCTTGAGC
AGTAAACCCGAAGTCAGCCTGCTCTACTACTAAACAAACAGGCCTGCTGCTAGATGATCTC
TAATGACCAATGGGGCTTCTTTCTATAGGGAGGATACCAGCAGGCCCTTAAGCCTTCCA
GGACACTAAGGTCGTGGGAGCGGGACTGCAACAAGCAATGCCAGATAACTGAGAAATCAT
GTTCTTTGTGGACTATTT CAGACAACCAGGTTCCGACAGTCCAGCCAGAACTTTTCTT
CTCATTTTGGGTTTTCTCTTCTCCTGCTTCTGCGGGAGAGATTAAAGCGCTCATTAAGCA
GAGGAGCCCACTTTGAGGAGAGCAAAGCACAAGCTTGCCTGAAGAATGGATCCCAACTTC

FIGURE 1 (CONT'D)

TCCCCGGCAGCTCTGCCTCCCTAAGTCTGTGAAGCCGAGCCCTGCCCTGTCCTGTCTCTG
 TCCTGACTTCATCTCTCCTTCTGCCCCAAGTCTGTGTCCCATCAGACTTGACAGCCTTTTCAG
 CTTAACAGTTGCCCCGTCCTGTCTGGCCCCCTTTTCTCTGGCCCCCTCTTCTGAAAACAGG
 ATGTGCACACATGGGCCATAGCCCTAAGGACTCCTGCCAGACCACACAGCCCACACCTGG
 CCCTGTTTCACGGCTGTTCCACCCACCCCTCTTTATTCTGGAGCATATCAGGGAAAGAAAA
 GTTGATGATAGATTGCCTTCACCTCACAGCGCACAATAAAGCTACGATGCCAACTTTG
 CAGATGCAAGAATGAAGACACTGTGTGGGTAGGGCACTGAGCTGCTGCAGTTTCACAGGG
 AAGGCTGCACCTATCAATCAATCAATCAATCCTATCCCAAGACACAGTTCCCTGAGGGAA
 GAAGAGGAGGGACCTGGAAAGGCCTAAGGGTGTACTCTCTGTATAGCCCCGCTATGGGAA
 AATAAAGTGGAGTAGGGGGCAT

Gene 618. >ENST00000308559 cDNA sequence

GCCAGAAATCTTCCAGTAGAGATCACCATCCGCCCCGACCCCCAAGCTGAATACTTAA
 GGGGTGGGTCTTCCCATCAAGCTGATTTCTCAACGAGAGGGACAATCCAGCTTCCCCA
 ACATTGCAGAGCCCAACATGTGGAAGAGTTGGAAGCTCCGCACAGATGTGAGAGTAAGG
 GAGGGGGCAGGCGGTTCTCCTTGTGCCTCTTCCAGCCCGGTAGCAGGGGGCCATGCTTC
 CTCCCTGGTCTGTCCTCGCAGGAGGTGTCCAGGCGGAGGCAGTTCTGCGGGAGCATGCG
 GCCCCCTTCTCCGCCTTCTCACAGACAGCTTCGGCCGGCAGCACAGCTACCTGCGGATC
 TCCCTCACAGAGAAGTGCAACCTCAGATGTGAGTACTGCATGCCCAGGAGGGGGTCCCG
 CTGACCCCCCAAAGCCAACCTGTGACCACAGAGGAGATCCTGACCCTCGCCCGGCTCTTT
 GTGAAGGAAGGCATCGACAAGATCCGGCTCACAGGTGGAGAGCCGCTTATCCGGCCGGAC
 GTGGTGGACATTGTGGCCAGCTCCAGCGGCTGGAAGGGCTGAGAACCATAGGTGTTACC
 ACCAATGGCATCAACCTGGCCCCGGCTACTGCCCCAGCTTCAGAAGGCTGGTCTCAGTGCC
 ATCAACATCAGCCTGGACACCTGGTGCCTGCCAAGTTTGAGTTCATTGTCCGCAGGAAA
 GGCTTCCACAAGGTGATGGAGGGCATCCACAAGGCCATCGAGCTGGGCTACAACCTGTG
 AAGGTGAACTGTGTGGTGATGCGAGGCCTTAACGAGGATGAACTCCTGGACTTTGCGGCC
 TTGACTGAGGGCCTCCCCCTGGATGTGCGCTTCATAGAGTATATGCCCTTTGATGGCAAC
 AAGTGGAACTTCAAGAAGATGGTCACTATAAGGAGATGCTAGACACTGTCCGGCAGCAG
 TGGCCAGAGCTGGAGAAGGTGCCAGAGGAGGAATCCAGCACAGCCAAGGCCTTTAAATC
 CCTGGCTTCCAAAGGCCAGATCAGCTTCATCACATCCATGTCTGAGCATTCTGTGGGACC
 TGCAACCGCCTGCGAATCACAGCTGATGGGAACCTCAAGGTCTGCCTCTTTGGAACTCT
 GAGGTATCCCTGCGGGATCACCTGCGAGCTGGGGCCTCTGAGCAGGAGCTGCTGAGAATC
 ATTGGGGCTGCTGTGGGCAGGAAGAAGCGGCAGCATGCAGAGTTATTTTTGATGTTCCCC
 AATTCCCCACCCAGCCAATCCAAGCATTTTCTCCTGGGACCCGCTCCATGTTTCAGGGTCTA
 AGACCCAGAATGAGTTTCTCCAGCCAGGTGGCCACTTTATGGAAAGGATGCAGGGTCCCC
 CAGACCCCTCCTCTAGCCCAGCAGCGGCTGGGGTCTGGCTCCTTTTCAAGACACTACACT
 TCCCGTGCAGACTCAGATGCCAACTCAAAGTGCCCTTAGCCAGGTTCCCTGGGCTTCTGCT
 GCCCCCTCAGGACCCAGCTAACCTCAGAACAATAACTCATGTGGACTCGGAAGGACGG
 GCAGCTATGGTAGATGTGGGCAGGAAGCCAGACACAGAGCGGGTGGCTGTGGCTTCAGCC
 GTGGTCTCCTGGGACCGGTAGCCTTCAAGCTTGTCCAGCAGAACCAGCTCAAGAAAGGA
 GATGCCCTAGTGGTGGCCAGCTGGCTGGAGTCCAGGCAGCCAAGGTGACCAGCCAGCTG
 ATCCCTCTGTGCCACCACGTGGCCCTGAGCCACATCCAGGTGCAGCTGGAGCTGGACAGC
 ACACGCCATGCCGTGAAGATCCAGGCATCTTGCCGGGCTCGGGGCCCCACCGGGGTGGAG
 ATGGAGGCCCTGACCTCTGCTGCAGTGGCCGCCCTCACCTGTATGACATGTGCAAGGCT
 GTCAGCAGGGACATCGTGTGGAGGAGATCAAGCTCATTAGCAAGACTGGTGGTTCAGCGG
 GGGGACTTCCATCGGGCTTAGCACCTGCCCTTCTCACCCATGGCCCACCCAGGCCTGGAG
 CTGGGATGCAATGTAGGCTGAGGGAAAGACGTCAAGTTCTTTAATCAAGTCACTGTTT
 GTTTACCTTGAGCAGTAAACCCGAAGTCAGCCTGCTCTACTACTAACAACAGGCCTGCT
 GCTAGATGATCTCTAATGACCAATGGGGCTTCTTTCTATAGGGAGGATACCAGCAGGCC
 CTTAAGCCTTCCAGGACACTAAGGTGCTGGGAGCGGACTGCAACAAGCAATGCCAGATA
 ACTGAGAAATCATGTTCTTTGTGGACTATTTTCAAGCAACCAGGTTCCGACAGTCCAGCCC
 AGAATTTTCTTCTCATTTTGGGTTTTCTCTTCTCCTGCTTTCTTGGGGAGAGATTAAG
 CGCTCATTAAGCAGAGGAGCCACTTTGAGGAGAGCAAAGCACAAAGCTTGCTGAAGAAT
 GGATCCCAACTTCTCCCCGGCAGCTCTGCCTCCCTAAGTCTGTGAAGCCGAGCCCTGCC
 CTGTCCTGTCTGTCTGACTTCATCTCTCCTTCTGCCCAAGTCTGTGTCCCATCAGACT

FIGURE 1 (CONT'D)

TGCAGCCTTTT CAGCTTAACAGTTGCCCGGTCTGCTGGCCCCCTTTTCTCTGGCCCCCT
CTTCTGAAACAGGATGTGCACACATGGGCCATAGCCCTAAGGACTCCTGCCAGACCACAC
AGCCACACCTGGCCCTGTTTACGGCTGTTCCACCCACCCCTCTTTATTCTGGAGCATAT
CAGGGAAAGAAAAGTTGATGATAGATTGCCTTCACCCTCACAGCGCACAAATAAAGCTAC
GATGCCAACTTTGCA

Gene 619. >ENST00000335010 cDNA sequence

ATGGTCATAGCGTATTTT CAGCCGGGCCGGCCTCCCCCTCCTGGCAATACCAACGCATTTCAT
TTCTTCTGGCTCTCTATCTGGCCAATGACATGGAGGAGGACGACGAGGCCCCCAAACAA
AACATCTTCTACTTCTGTACGAGGAGACCCGCTCTCATATACCCTTGCTCAGTGAGCTT
TGTTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAAGTCTCTCAGATAGCC
TTGTTCCGGAAGTATCGGTTTCACTTCTTTTGTTCATGCGCTGCAGGGCTTGGGTTTCC
CTGGAGGAGTTGGAAGAGATCCAGGCTTATGACCCAGAGCACTGGGTGTGGGCGCGAGAT
CGCGCCACCTTTCTAG

Gene 620. >ENST00000310939 cDNA sequence

TTTCCCAGTCCCCGAGGCGGATCCGGTGTTCATCCTTGGAGAGAGCTGAGAGCTCGAGT
ACAGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTTGCTCT
GGGCCGGTGGTACTGAGTCTAAGCACTGCGGTGAAGAAGATAGTAGGAAACAGTCTGGAT
GCTGGTGCCACTAATATTGATCTAAAGCTTAAGGACTATGGAATGGATCTCATTGAAGTT
TCAGGCAATGGATGTGGGGTAGAAGAAGAAAACCTTGAAGGCTTAACTCTGAAACATCAC
ACATCTAAGATTCAAGAGTTTGGCGACCTAACTCGGGTTGAACTTTTGGCTTTTGGGGG
AAAGCTCTGAGCTCACTTTGTGCACTGAGTGATGTCAACATTTCTACCTGCCACGTATCG
GCGAAGGTTGGGACTCGACTGGTGTGATCACGATGGGAAAATCATCCAGAAAACCCCC
TACCCCCACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTACCTGTG
CGCCATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCCTTCGCCTTC
TGCCGTGATTGTGAGTTTCTTGAGGGCTCCCCAGCCATGCTTCCTGTACAGCCTGCAAAA
CTGACTCCTAGAAGTACCCACCCACCCCTGCTCCTTGGAGGACAACGTGATCACTGTA
TTCAGCTCTGTCAAGAATGGTCCAGGTTCTTCTAGATGA

Gene 621. >ENST00000325462 cDNA sequence

CAGTGTGGCAGTGGAGGCCGTGAGATTACTGATACTTATCCTTAAGAACATGGAAGGGGT
GCTGATGGACGTGGACTGTGAGAGCGTCTACCCCATTTGTGTAGGCCTCTAATTGAGGCCT
GGCCTCTGCTGTGGGTGAATTTCTGTACTGGAACTTTTCTACCTGAGTGCGAGATAAG
AACGATGGGTGGAAGAGAGCAACGCCAGAGCCAGGTGCCAGAGGACTTTCTTCCAGCT
TCTGCTGTCTTTCTTTGTGGAGAGCAAGCTCCACGACCACGCTGCTTACTTAGTAGACAA
CCTGTGGGACTGTGAGGGACTCAGCTGAAGGACTGGGAGGGTCTGACAAGCCTGCTGCT
GGAGAAGGACAGAGCACGTGCCACATGGAGCCAGGGCCAGGGACCTTCCACCTCCTAGG
GTGAAACCAGGAGAGATTGCTTGCTTCACTTGTACAAGAATCGGCTCCCAGACACCTGCC
ACTCGTGAATGCATCTGATAAACTCACTCACACTGAGGCCTTGGGGACTGAGGCCCTGGC
GGATCACGGGTGCCAGGGGCTCGGAGGCCGCCTCCTCTGGGAAGCCTGCCAGGTTCCG
ATGGACTCCCACAGGCAATACCCTGGGCCTTCTCGCGGCCCTGTTGGCCCAATTCC
CCCACCCCTGCAAGGTCTGTGCCTCTCCTGCAGCCCCGCCACCAACTAGGGCGAGAGGA
GCTCGCCCCCACCCAAACGTATTGGTTTCGATGAAGGAAGGGCCCATGGTTCTGCCACTGG
CCCTGGACACCCAGTGTGGTTTCCCCTGGAAGTCCCCCTGGACTGAGTGGCGGGCTGGGT
GCTCTAGTGATTTGCGACCTGGGGCCTCTGACTCCCATCATGTTGGGAAAGTCGTTGAAC
CTCACCGGTGAAACGGGCACAGTGAAGTCATTTCCCCGAAGTCTCAGGACTCTGTGTAAG
GCTGGGGACAGGGGCTTGTGTTGGGGCCTAAGGGCACCTTGGGAAGTGCAGGAGCCGTTCT
GCCTCCATAAGACACTCACTCCTGGCAGGGTCCCCCTCTCCGGGCACAGCCAGATCCACC
CCCATCATCCCTCTCCATCTGTGGCTCCCTGCCCCCTCACAGAGGATTCATCACTCTGTTT
AGAATCCCAGGACTCCCTAGGGAAGGAGGTCCCAGCCTGGCCTCCCAAGACCGTGCTTG
CCCAATTCCAGGACTTCTCACATGGCTCCTACCTCCAGCACAGAAGCGGCACCTAAACCA
GGTGGTCAATCAGGGAGCACCCAGGTTCTGAATGGTCCAGGGATGAGCAGTGATGCC
TCAAGCTAAGCCAATCAAAGCCTTCCCTGGGATTGTCTCAAGGAGTCCGAGTGAGATTTC
TGGGTCTCAGTACTGGGAAAGGGTGAAGGCTGAGGCTGCCTGCTGTCTGGGGGCCTCACC
CTGCCACCAACAGGAAGCCACAGAGGGAAGCAGAAATGAGACGCAGCCAGTGAGGGCA
GGGTACAAAGGTGAGATCCCGGAGAGACAGATGCTGGGACATCATCCTTGGGTACTGGTT

FIGURE 1 (CONT'D)

CCAACAGTGCCTGCAGATGGAGCCACCTCGGAGAGTCCACAACAGCAGCCAATCCATTCTATGCGTGTCTGAGCTACTTTAAGTCGGGTTTTTGAAGTGAATGAGAGTCTCATCTTGGCTAGGCACCATGGCGCAACAACCTGGGGAGGTGGAGGTAGGAAGATTGCTTGAGGCCAAGAGTCCCAGAGCAGCCTGGGCAACCTATCAAGACGCTGTCTTTACGAAAAGAAAAAAAC TAGCTAGGTGTGGTGGTGCCTGTGGTCCAGCTACTGGGGAGGCTGAGGTGGGAGGATTGCTTGAGCCCAGGAAGTGGAGGCTGCAGTGACCTATGATGGCACCCTGTACTCCAGCCTGGGTGACAGAGCAAGACCCTGTCT

Gene 622. >ENST00000275590 cDNA sequence

AGAATGTAATGCCGCCGTGCGGTAGGGGTCTGCCGGGCATAAAGGGGCCTTCGGAACCCCA CCAGAGTCACAGCCAGGAAGGGCAGCGGGGCGCACCAGGCCGAAGGCTCACGCCACAGGGAGGGCAGCTAGGACATGGGGGAAGCGCGTTAAACCAGGGAGTCTGGAAGGGGACGACGCCCCCGGCCAGTCCCTGTACGAGCGGTTAAGTCAGAGGATGCTGGACATCTCGGGGGACC GGGGCGTGCTGAAGGACGTCATCCGAGAAGGAGCTGGAGACCTAGTGGCGCCTGATGCTT CCGGTGCTAGTGAAATACTATGGATACCTGGAACTTGGACAGACCCTTCGATTCTAATT ACTTTAGGAAAACCTCCTCGGCTAATGAACTTGGAGAGGATATTACATTGTGGGGCATGGAGCTGGGCCTTCTGAGCATGCAGAGAGGAGAGCTGGCCAGATGCTTCGTCTTGGGTAAAC TCCTCGACTCCCAAGGCCCCAGCCTCCATCTTTACCTCAGAGCCTCCTGAACCTCCTCCT CCAGCCTCACCTTCCTCCAGCCTCACCACTCCTCCCTGGACCTGCAGCTCCGCACCCCCG GGGGCCTCAGAACTACCCCTTCAGGGCCTCAGAACTACCCCTACAGTTTCTCCTGCGTA ACCTTCTGCCTACCTTCCTGAGAGTGGTTGGTGACAGCAGCCGGGGCTAGAAACCTCGAG GCGACTGTGCTTGAGTCTCTCTTGCTCTTTACATCCCAAATCCCATCAATTGTACGCC TTGTGCCTTCCGCTCTCAAATATTAGAAAGCAGATGTATGCTGGGCACGGTGGTGAAT CAAGCCTATAATCCAGCACTTCGGAAGGCGGAGGCAGGAGGATCGCTTGAGGCCAGGAA TTTTAGACCAGCCGGGGCAACATAGTGAAACCCCATCTCTAC

Gene 623. >ENST00000323819 cDNA sequence

GAGCATGATGGGGCATGTGCGGGAGCGCCAGGCGGGGCATGTAAACAGAGCGTGCGGGGC ATGATGGGGCACGGACATGGGGGGTTAGGTGGGGCACGTAATTGGAGCTCGCGGGGCAGG ATGGGGCATCTAACTGGAGCGACAGAGAGCACGATGGGGCACTTACAGGGGCCGGAGGCT GGCCCGGGCAGTGAGTGTGGATGGCTTGGCAGGTGAGCCTGCTGGAGCTGGAGGACCGGC TTCAGTGTCCCATCTGCCTGGAGGTCTTCAAGGAGTCCCTAATGCTACAGTGCGGCCACT CCTACTGCAAGGGCTGCCTGGTTTTCCCTGTCTACCACTGGACACCAAGGTGCGCTGCC CCATGTGCTGGCAGGTGGTGGACGGCAGCAGCTCCTTGCCCAACGTCTCCCTGGCCTGGG TGATCGAAGCCCTGAGGCTCCCTGGGGACCCAGAGCCCAAGGTCTGCGTGCAACACCGGA ACCCGCTCAGCCTTTTTCTGCGAGAAGGACCAGGAGCTCATCTGTGGCCTCTGCGGTCTGC TGGGCTCCCAACACCAACCCCGGTACGCCCCGTCTCCACCGTCTGCAGCCGCATGAAGG AGGAGCTCGCAGCCCTCTTCTCTGAGCTGAAGCAGGAGCAGAAGAAGGTGGATGAGCTCA TCGCCAAACTGGTGAAAAACCGGACCCGAATCGTCAATGAGTCGGATGTCTTCAGCTGGG TGATCCGCCGCGAGTTCCAGGAGCTGCGCCACCCGGTGGACGAGGAGAAGGCCCGCTGCC TGGAGGGGATAGGGGGTCACACCCGTGGCCTGGTGGCCTCCCTGGACATGCAGCTGGAGC AGGCCCAGGGAACCCGGGAGCGGCTGGCCCAAGCCGAGTGTGTGCTGGAACAGTTCCGGCA ATGAGGACCACCATGAGTTTCATCTGGAAGTTTCACTCCATGGCCTCCAGGTAATAACCTT GGAGAGAGCTCAGCCAGGGTCTGGTGGCTGCGGGCAGGGCATCTCAGCTCCACTGGTTT CTCCATTAGCTTAAACAGCGCCTCCCAAGCAGCTGCCTATAGCTGGCTCTATAACTGAG CCTGGGGAAGATAGAGGAAAGTCACATCCCTGCCTTCAAGGGTCTCGCAGACAGGTGGGG AGGCAGATGGTGAACGTGGGTACCTAGAACAGCAGAAGTTCACTCAAGCTACAGAAATA CTAGAGGAGGGTAGCTCATGCCTGCAATCCAGTACTTTGGGAGGCCAAGGCAGGAGTAT TGCTGGAGGCCGGGAGTTGAGACAGCCTGGCCAATGTAGTAACACCCCGTCTCTACA AAAAATACAAAATAAAAAAATTAGTTGGG

Gene 624. >ENST00000323788 cDNA sequence

GCGCTTTGCGACAGAGCCGTAAAGGCGCGCGGGAACATGGGGCTGTACGCTGCGGTGGCA GCGGTGCTGGCCGGCGTGGAGAGCCGCCAGGGCTCTATCAAGGGGCTGGTGTACTCCAGC AACTTCAGAACGTGAAGCAGCTGTACGCGCTGGTGTGCGAAACGCAGCGCTACTCCGCC GTGCTGGATGCCGTGATCTCCAGCGCCGGCCTCCTCAGTGCAGGAAGCTGCAGCCGCAC CTGGCCAAGGTGCTAGTGTATGAGTTGTTGGGAAAGGGCTTTCGAGGGGGTGGGGGCCAA

FIGURE 1 (CONT'D)

TGGAAGGCTCTGTTGGGACGGCACCCAGGCGAGGTGTTGAGTTGGCTCGGCTCAAGGTTCT
TCGGGGTGTGAGCTGGCATGAGGACCTGTTGGAAGTGGGATCCAGGCCTGGTCCAGCCTC
CCAGCTGCCTCGATTTGTGCGTGTGAACACTCTCAAGACCTGCTCCGTTTATGTAGTTAT
TTCAAGAGACAAGGTTTCTCCTATCAGGGTCGGGCTTCCAGCCTTGATGACTTACAAGCC
CTCAAGGGGAAGCATTTTCTCCTGGACTCCTTGATGCCGGAGCTGCTGGTGTTCCTCGCC
CAGACAGATCTGCATGAACACCCACTGTACCGGGCCGGACACCTCATTCTGCAGGACAGG
GCCAGCTGTCTCCAGCCATGCTGCTGGACCCCGCCAGGCTCCCATGTATCGATGCCT
GTGCCGCCCCAGGCAATAAGACCAGTCACTTGGCTGCTCTTCTGAAGAACCAAGGGAAGA
TCTTTGCCTTTGACCTGGATGCCAAGCGGCTGGCATCCATGGCCACGCTGCTGGCCTGGG
TTGGCGTCTCCTGCTGTGAGCTGGCTGAGGAGGACTTCTGGCGGTCTCCCCCTTAGATC
CGCGCTATCGTGAGGTCCACTATGTCTGCTGGATCCTTCTGCACTGGCTCGGGTATGC
CGAGCAGACAGCTGGAGGATCCCGGGGCGGGACACCTAGCCCGGTGCGTCTGCATGCCC
TGGCAGGGTTCCAGCAGCGAGCCCTGTGCCACGCGCTCACTTTCCTTCCCTGCAGCGGC
TCGTCTACTCCATGTGCTCCCTCTGCCAGGAGGAGAATGAAGACATGGTACCAGATGCGC
TGCAGCAGAACCCGGGCGCCTTCAGGCTAGCTCCCGCCCTGCCTGCCCGGCCCCACCGAG
GCCTGAGCACGTTCCCGGGTGCCGAGCACTGCCTCCGGGCTTCCCCAAGACCAAGCTTA
GCGGTGGCTTCTTCGTTGCTGTAATTGAACGGGTGAGATGCCGACCTCAGCCTCACAGG
CCAAAGCATCAGCACCAAGAACGCACACCCAGCCAGCCCAAAGAGAAAGAAGAGACAGC
AAAGAGCCGACCGCGGTGCTTGACACCGCCTTGACATAGCAGAGGCTCCAGGCTGACT
CCTTCTGTTGGGAAAGGAAGATGCCTGTCTCTCCGTGGAGGACCTGGGCCCTCACCG
CAGGCAGCAGTTTGCATTTTGAAGGTTATTGGGTCCCTTCTCGGGCTGTGTTCTTGCT
GGTGAGCAAAAGTGTTCCTGCAGAAATAAAATGCAGAACGTACTCT

Gene 625. >ENST00000257665 cDNA sequence

ATGTCTCCGGCGGCTGCGGCGGCTGGAGCAGGCGAGCGGCGGCGGCGGATAGCGAGTGTC
AGGGACGGCCGGGGCCGGGGCTGCGGCGGGCCGGCCGGGGCGGCGCTTCTCGGCCTGTCTG
CTGGTCGGCCTCCTACTGTACCTCGTGCCTGCTGCGGCTGCGCTGGCCTGGCTGGCCGTG
GGGACTACCGCGGCCTGGTGGGGACTGAGCCGCGAGCCCGAGGTTTCGCGCCCTTGTCC
TCCTTCGTTTCAGAAGGCGCGACATCGGCGAACACTGTTTCGCTTCGCCTCCGGCCAAGTCG
ACAGCCAACGGAAACCTCCTAGAGCCGCGGACCTGCTCGAAGGACCTGACCTGCCGAA
CTGCTCCTCATGGGCAGTTACCTGGGCAAGCCCGGGCCGCCGAGCCCGCCCCGCTCCG
GAGGGCCAGGACCTGCGGAATAGGCCTGGCCGCCGCCACCCGCCCGCCGGCGCCGCGC
TCCACACCGCCCTCCCCGCCGACCCATCGCGTTTACCACCTTTTACCCCTCTCTCCCACT
CCTCTTCTCCGACCTCCGGGAGGCCTTCCCCACGGGATCGTGGGACTTTACCAGATCGG
TTTGTAAATAACACCTCGAAGACGCTATCCGATCCATCAGACCCAGTATTCTGTCCGGGG
GTACTTCCCAAGTGTGCTGGAATGGTTATCACAAGAAGGCTGTGCTGTCCCCTCGCAAC
TCCAGGATGGTGTGTAGCCAGTGACTGTGAGGATCGCCCCCTCTGACAGAAGATTTTCA
CGTTCTGCGATACCAGAGCAGATAATCAGCTCAACACTGTCTGTCACCATCAAGTAATGCC
CCAGACCCATGTGCAAAGGAGACTGTACTGAGTGCCCTCAAAGAGAAGAAGAAGAAAAGG
ACAGTGGAGGAAGAAGACCAATATTCTTTGATGGCCAGGAAAATAAAAGAAGGCGCCAT
GATAGCAGTGGCAGTGGACATTGAGCATTGAGCCCTGGTGGCCAGTGGAGTCCCCGCT
TCTTTTGTGCCTAAGCCTGGGTCTCTGAAGAGAGGCCTCAATTCTCAGAGCTCAGATGAC
CACTTGAATAAGAGATCCCGAAGCTCTTCCATGAGCTCCTTGACAGGCGCTTACACAAGT
GGCATCCCTAGCTCCAGCCGCAATGCCATTACCAGTTTCTACAGCTCCACTCGAGGCATC
TCACAGCTCTGGAAGAGAAATGGCCCCAGTTCATCACCTTCTCTAGCCAGCCTCATCC
CGCTCCCAGACACCGGAGAGGCCAGCAAAAGAAAATAAGAGAAGAAGAGCTGTGTCATCAT
TCCAGTTCTTCAACTCCATTGGCAGCAGACAAGGAGTCCAGGGAGAAAAGGCTGCAGAT
ACAACCCCAAGGAAGAAACAAAACCTCGAATTCTCAGTCTACACCTGGCAGCTCTGGGCAG
CGTAAGCGGAAAGTTGAGCTGTGCTTCTCGGCGAGGGGAACAGCTGACCTTGCCCTCA
CCTCCCCAGCTTGGCTATTTCGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCA
TTACAGTGGTTCAACCAGGCCTTGGAGGACAAGAGTGATGCTGCCTCGAACTCTGTCACT
GAGACCCACCTACCACTCAGCCTTCATTTACCTTTACCTTGCCTGCTGCTGCAACTGCC
TCCCCACCCACCTCCCTCCTGGCCCCAAGCACCAACCCACTGTTAGAGAGCTTGAAGAAG
ATGCAGACTCCCCGAGCCTGCCACCCTGCCCAGAATCTGCTGGAGCAGCAACCACTGAG
GCCCTCTACCTCAAAGACACCCAGCCTCCTACCCCGCTGGGTTTATCACAGTCAGGG

FIGURE 1 (CONT'D)

CCGCCAGGGCTGCTCCCCAGCCCCCTCCTTTGACTCCAAACCCCCGACCACTTTGCTGGGG
 CTGATCCCTGCTCCATCCATGGTACCAGCCACTGACACCAAGGCACCTCCAACCCCTTCAA
 GCAGAGACGGCTACCAAACCCCAAGCCACATCTGCCCCGTCCCCGCCCCCAAGCAAAGC
 TTCCTGTTTGGAAACACAGAACACCTCACCTTCCAGCCCTGCCGCCCCCTGCTGCATCTTCA
 GCATCTCCCATGTTCAAGCCCATTTTTCAGGGCTCCACCCAAGAGTGAGAAGGAAGGCCCC
 ACACCGCCTGGCCCTTCAGTCAAGCCACAGCGCCCTCCAGCTCCTCCTCCCCACGACC
 ACCAGCACCACAGCCCCGACCTTCCAGCCTGTCTTTAGCAGCATGGGGCCACCTGCATCT
 GTGCCCTTGCTGCTCCCTTCTTCAAGCAGACAACTACTCCCCGCACTGCTCCACACACA
 ACTGCCCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTGGCTCCCATCACCTCT
 GCCAGTCCATCCACAGACTCTGCTTGAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTG
 AGCAGCAGCAGTGTGAGTACCACGACCAGCACCGCCACTGCCGCTCACAGCCTTTCCTC
 TTCGGGGCGCCCCAGGCCTCTGCTGCCAGCTTCAACCCGGCCATGGGCTCCATATTCCAG
 TTTGGCAAACCTCCTGCCTTGCCCCAACACCACAGTCACCACCTTCAGCCAGTCCCTG
 CCCACTGCCGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTTAGTGGTTTTTGGCAGC
 ACCCTCGCCACCTCCGCCCCGGCCACCAGCAGCCAGCCCACTCTGACGTTTCACTAACAG
 AGCACCCCCACGTTCAACATTCCCTTTGGCTCAAGCGCCAAGTCCC CGCTCCCATCATAT
 CCGGGAGCCAACCCCCAGCCCGCATTTGGGGCCGCTGAGGGGCAGCCACCGGGGGCCGCC
 AAGCCAGCCCTTACCCCCAGCTTTGGCAGCTCTTTCACCTTTTGGAACTCTGCAGCCCCG
 GCCCCGGCTACTGCACCCACACCTGCACCTGCGTCCACGATCAAGATCGTGCCTGCGCAC
 GTGCCTACGCCCATCCAGCCTACCTTTGGCGGTGCCACGCACTCGGCGTTTGGATTGAAA
 GCCACGGCTTCCGCCTTCCGCGCTCCCGCCAGCTCACAGCCCGCCTTTGGCGGCTCCACT
 GCTGTCTTCTCCTTCGGTGCAGCCACCAGCTCCGGCTTTGGAGCCACCACCAGACCGCC
 AGCAGCGGGAGCAGCAGCTCGGTGTTTGGCAGCACAAACCATCACCTTCACGTTTGGG
 GGTTCCGGCAGCCCCGCTGGCAGTGGGAGCTTTGGGATCAACGTGGCCACCCAGGCTCC
 AGCGCCACCACCGGAGCTTTAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCC
 ACCCCCTTTCACAGGGGGCTTAGGTGAGAACGCCCTGGGCACCAACCGCCAGAGCACACCG
 TTTGCCTTCAACGTGGGCAGCACAACTGAGAGCAAACCTGTGTTTGGAGGCACCGCCACC
 CCCACCTTTGGTTCAGAACACCCCTGCGCCTGGAGTGGGCACATCGGGCAGCAGCCTCTCC
 TTTGGGGCATCTTTCAGCACCCGCCCAAGGCTTTGTTGGTGTGGACCGTTTCGGATCGGCG
 GCCCCCTTCATTTTCCATTGGTGCGGGATCCAAGACCCAGGGGCTCGACAGCGACTGCAG
 GCCCGAAGGCAGCACACCCGCAAAAAGTAGCCTTTGTCCCCTGTCCCTGTTCCCCCACC
 CCTTCCCTAAATCTGGACCTTGGCACGTGCTAGAAAGAGCCTTGGACCTTCCAGCTGCG
 TAAAGCAAACCTACCCCGATCTCTGGCTTCAGCCGCCAGGGGGCAGTGGCAGCCCTGGG
 GCCCTTTCCCTTCTGGAGGAAGCACAAGCCTCAGGGAAGGGGAAGCAGGATGCGGAGGGC
 CAAAGCCCGGGACCTCTACTTGAACAGTTTCACTGGGGAGGCTGGAGAACTAAGGACCTG
 TACATAGTGTCCGCTGCCCTGACTCCCGCTTAGCGCACCTTAGGCAGGCGCCCCCTTCCA
 CCTTTCCCCGAGAGCCGTCGTCGCTGGAGGGGGCAGGGTCCAGCCCGCCTGGATCGGTGG
 TGTGCACCTGATGGGATTTGGGAAATGGGTTATCCTAAAGCTTTATCTTGCTTGGCTTA
 GCTGTGAGAAGTGGTTCTCTTCTCTGGTCCCTTCTGGGGACTCTGTTTCCCATTCTT
 GCTGCTGTGTCCCTCACCGGTTCTTTCAGGATTCCCTCCTTTTTTAAATGCCCTTGAATC
 TAGCTTTGCTTGGAGACCCAGTGGGTGCTGCTCCTGCCGTTTTCTTCTGCCAAGCCT
 GAATCAATGTTTTCATCTCCAACCTCTGCCAGTTTGGCCCCCTCAGAGCTTGGTGGCTCAA
 GACTGTTAGCCTGGCAGAGCCAGGGGTGAAGGGAGAAGCTCTTGGAGCAGGCAGGATGCC
 CACCGCTGCTTCAGCTGCCTCCTCGCCCAGCTACCTTTGGCCCCATTGGGCCCTCGTCT
 GCCTCTCCAGGATTGTATGTTTCAAGCCTTGTCTGTGTTCTTTGTCTGACGCTCTGTG
 TATTGCTCTTTGAATCGAGTTTGGAGGAAGAGTTGAGTTGTATGAGTGGCGGCATGTTGG
 TAGTGCCGGACTTCTGTTTTCAAGTTTTCTGGGGCCTCGCTAATTGAATGTGGAAAGTAG
 CACCACTTGACGGCTACAAGTGCCGACTCCTGAATTTTCCCATGGTGTCTGACTTCAAG
 GGCTGGCAGCCAGGGAGAATGGGCCAGGGGAAGCAAAGACCTCTTCCCTCTGCGGTTTC
 TGTCCCACTTAACTGACCTCACTGGAGGCTACGTCACCCAAAGTAGATGTTAGAAAACCT
 AAATTAATGAACCATATTTTTTAAATCCTATTTTTCCCAAACAGGGCCCTCTGCAGCCCA
 TCCTTTCTTCCGTCCTTCTGAAACCATACCCAGGCCCAAGCGCCTTGCTGTACGCG
 CCAACCTCTTTGGGAGAAGTATGAATGCGTGTGTCTAAATT

Gene 626. >ENST00000317042 cDNA sequence

FIGURE 1 (CONT'D)

ATGATCTCAGCTCACTGCAGCAACCTCCACTTCCTGGGTTCAAGCGAGTCTCCTACATTG
GCCTCCCAAGTAGGTGAGATTACAGGCACTCACCACCACACGCGGCTAATTTTTGTATTT
TTGGTAGAGACGGGGTTTTACCATTGTTGGCCACGCTGGTCTTGAACTCCTGACCTCAAGT
GATCCACCCACCTTGGCCTCCCGAAGTGCTGGGATTACAGGCATGAGCCACCGTGCCCGG
CCTCATGGAATTTCTAGGGGTGAGCAGGTGACCCTGGGGCTGCCACTTGAGCTCCTGGAG
TGTGTGTCTTGGCCCCCTGTGTGGTTCTCCATTAAAGAAAAGCTCAGATAGTCTCAACCCCA
CCCTCTCCCTTGCTGCACTCAGAGTACCAGTGGGAGCTGAAGGATGGGGAGGAACAGAG
CAGTGA

Gene 627. >ENST00000329959 cDNA sequence

GGACTGGTGTAAAGGGTCACGCAAGATGGCGGCGCCAGAGGCTGCTGAGGCGCGGAACG
GAGGATGGCGCTGGTGGCGTTGGTGGCTGGGGCTCGGCTGGGGCGGCGGCTGAGCGGGCC
GGGGCTGGGGCGAGGGCACTGGACGGCGGCCAGGCGCTCCCGAGCCGGCGCGAAGCGGC
AGAAGCCGAGGCGGAGGTGCCCGTGGTCCAGTACGTGGGCGAGCGCGCTGCCCGCGCCGA
TCGCGTCTTCGTGTGGGGCTTCAGCTTCTCGGGGCGCTGGGCGTGCTTCCTTTGTGGT
GCCCAGCTCCGGGCCCCGGGCCCCGCGCCGGCGCCGACCGCGCCGAGGATCCAGCCCCGT
GCCCTATCGCCTGGAGCTGGACCAAAAGATTTTATCTGCTGCTTGCGGCTATGGATTAC
ACTGCTGTCTCTAAGACTGCGGATGTTACGAAAGTCTGGGGGATGGGACTCAACAAAGA
TTCTCAGCTTGGATTTTACAGGAGCCGGAAGATAAAACGAGGGGCTACGAGTATGTGTT
GGAGCCCTCACCCGTCTCCCTGCCTCTGGACAGACCTCAGGAGACACGGGTGCTGCAGGT
CTCCTGCGGCCGAGCTCACTCTCTTGTGTTGACTGACAGGGAAGGAGTCTTCAGCATGGG
AAACAATTCTTATGGGCAATGTGGAAGAAAGGTGGTCGAAAATGAAATTTACAGTGAAAG
TCACAGAGTCCACAGGATGCAGGACTTCGATGGCCAGGTGGTCCAGGTGCGCTGTGGTCA
GGATCATAGTCTGTTCTGACGGATAAAGGAGAAGTCTATTCTTGTGGATGGGGTGCTGA
TGGGCAACAGGTCTGGGTCACTACAATATCACCAGCTCGCCACCAAGCTGGGTGGAGA
CCTGGCGGGAGTGAACGTTATCCAAGTTGCCACCTACGGTGATTGCTGCCTGGCCGTGTC
CGCCGACGGAGGACTTTTTGGTTGGGGAAACTCGGAGTACCTGCAGCTGGCCTCTGTAC
TGACTCCACACAGGTGAATGTGCCCGCTGCTTACACTTCTCAGGAGTGGGGAAGGTGCG
ACAGGCTGCATGCGGTGGCACGGGCTGTGCAGTGTTAAACGGAGAAGGACATGTTTTTGT
CTGGGGCTATGGAATTTCTGGGAAAGGTCCAAACCTAGTGGAAGTGCCGTCCTGAAAT
GATTCACCCACTCTCTTTGGCTTGACGGAGTTCAACCCAGAAATCAGGTTTCCCGCAT
CCGATGTGGACTCAGCCACTTTGCTGCACTGACCAACAAAGGAGAGCTGTTTGTATGGGG
CAAGAACATCCGAGGGTGCTGGGAATCGGTGCGCTGGAGGACCAGTATTTCCCATGGAG
GGTGACGATGCCTGGGGAGCCTGTGGACGTGGCATGTGGCGTGGACCACATGGTGACCT
GGCCAAGTCATTCATCTAA

Gene 628. >ENST00000334260 cDNA sequence

GAAAGAAAGAGAAAAAGGAGGGCGAGTGGCGAGCAGGGGCCTCGGCCGCCACCCACACGC
CCCGAAGCGTGCTCGTCCCCCGCGCGGGGCTCCCGGCCGCCCGCCCTCGGCCATCGGCTGC
TCCCCGGTGGCCAGGCCTCGGACTCCGCGGCCCGGCCCGCGCGGCCAGCGCCCTCAGG
GATCATGGCCAGGTAGCAGTGTCCACCCTGCCTGTTGAAGAAGAGTCCTCCTCAGAGAC
CAGGATGGTGGTGACATTCTCGTGTCTGCCCTCGAATCCATGTGTAAAGAACTGGCCAA
GTCCAAGGCAGAAGTGGCCTGCATCGCAGTGTACGAAACAGACGTGTTTGTGTCGGAAC
CGAGAGAGGATGCGCTTTTGTAAATGCCAGGACGGATTTTTCAGAAAGATTTTGCAAAATA
CTGCGTTGCAGAGGGACTGTGTGAGGTGAAACCTCCCTGCCCTGTGAACGGGATGCAGGT
CCACTCGGGCGAAACGGAAATACTCAGGAAGGCAGTGGAGGACTATTTCTGCTTTTGTTA
TGGTAAAGCCTTAGGGACAACAGTGATGGTGCCTGTTCCCTATGAGAAGATGCTGCGAGA
CCAGTCGGCTGTGGTAGTGACGGGGCTTCCGGAAGGCGTTGCCTTTCAACACCCTGAGAA
TTACGACCTTGCAACCCTGAAATGGATTTTGGAGAACAAGCAGGGATTTTCATTTCATCAT
AAATAGACCCTTCCTAGGACCAGAGAGTCAGCTGGGTGGCCCTGGGATGGTAACAGATGC
GGAGAGATCCATAGTATCACCAGTGAAAGCTGCGGCCCATCAATGTGAAAACCTGAACC
CATGGAAGATTCTGGTGGGTACCAAGATGCTTTTGAATCAAGTATCGGCCAAGCGTGGT
AGCTCACGCCTGTAATCCAGCAATTTGGGAGGCCGAGGCAGGCGGATCACTTGA

Gene 629. >ENST00000312575 cDNA sequence

CTTTCAGGAAGCCACCCTTCTTCCACAAGCAATGAAGTAATAGAAATGGAATTACCAATG
GAAGATTCCACTCCGCTGGTCCCTTCAGAAGAACCAATGAGGACCCTGAAGCCGAGGTG

FIGURE 1 (CONT'D)

AAAATCGAAGGAAACACAAATTCATCCAGTGTTACAAATTCCTGCAGCAGGTGTTGAAGAT
CTTAACATCGTTCAAGTGACTGTTCCAGATAATGAGAAGGAAAGATTATCAAGCATTGAA
AAGATTAAACAGCTAAGAGAAACAAGTTAATGACCTCTTTAGCCGAAAATTTGGTGAAGCA
ATTGGCGTGGATTTCCCTGTGAAAGTTCCTACAGGAAGATCACATTCAACCCTGGCTGT
GTGGTGATTGATGGCATGCCCCGGGGGTGGTATTCAAGGCCCCGGCTATCTGGAAATC
AGTTCCATGAGGAGGATCTTGGAGGCAGCTGAGTTTATCAAATTCACAGTCATCAGGCCG
CTTCAGGGCTTGAGCTCAGTAATGTGGGAAAACGCAAGATAGACCAGGAGGGCCGTGTG
TTTCAAGAAAAGTGGGAGAGAGCGTATTTCTTCGTGGAAGTACAGAATATTCCAACATGT
CTCATATGCAACAAAGCATGTCTGTGTCCAAAGAATATAACCTAAGACGCCACTATCAA
ACCAATCACAGCAAGCATTATGACCAGTATACGGAAAGAATGCGTGACGAGAAGCTTCAC
GAGCTGAAAAAAGGGCTCAGGAAGTATCTCTTAGGCTCGTCAGACACCGAGTGTCCCGAG
CAAAAACAAGTGTGTTGCAACCCAAGTCCAACCCAGAAATCCCCCGTCAGCCTGTAGAG
GACCTAGCTGGGAACCTTATGGGAGAAGTTACGTGAAAAAATCAGGTCTTTTGTGGCATAT
TCTATCGCAATCGATGAGATCACGGATATAAATAATACCACCCAGTTGGCCATATTCATC
CGTGGTGTGATGAGAAATTCGATGTGTCCGAAGAATCTCTGGACACGGTGCCCATGACG
GGTACAAAATCTGGCAACGAGATCTTTTTGCGTGTGAGAAGAGCCTGAAAAAGTTCTGT
ATCAACTGGTTCGAGATTAGTAAGCGTGGCCTCCACTGGCACCCAGCGATGGTGGATGCC
AATAACGGGCTTGTCAAAAACCTGAAGTCCAGGGTGGCGACGTTCTGCAAGGGTGCAGAA
CTGAAGTCCATCTGTTGTATAAATTCATCCGGAATCACTCTGTGCTCAGAAGTTGAAGATG
GACCACGTGATGGACGTGGTAGTGAAGTCCGTGAACTGGATATGCTCCCGGGGACTGAAC
CACAGCGAGTTTCAACCTTGCTCTATGAGCTGGACAGCCAGTATGGTAGCCTCCTGTAC
TACACGGAGATTAAGTGGCTCAGTCGCGGGCTCGTGCTAAAGAGATTTTTTGAATCCTTG
GAAGAAATCGACTCCTTCATGTCTATCCAGAGGGAAACCCCTGCCTCAACTGAGCTCCATA
GATTGGATCCGAGACCTGGCCTTCTTGGTTGACATGACGATGCATCTGAACGCTTTGAAC
ATCTCTCTCCAAGGACACTCCCAAATCGTCACGCAGATGTATGACCTGATCCGGGCGTTT
CTAGCAAACTGTGCCTCTGGGAGACTCATTTGACGAGGAATAATCTGGCCCACTTTCCC
ACCCTGAAATTGGTTTCCAGAAATGAAAGCGATGGCCTGAACTACATTCCCAAATCGCG
GAACTCAAGACCGAATTCAGAAAAGGCTGTCTGATTTCAAACCTACGAAAGCGAACTG
ACTCTGTTTCAGCTCCCGTTCTCCACGAAGATCGACAGTGTGCACGAGGAGCTCCAGATG
GAGGTTATCGACCTGCAATGCAACACGGTCTGAAGACGAAATACGACAAGGTGGGAATA
CCAGAATTCTACAAGTACCTCTGGGGTAGCTACCCGAAATACAAGCACCATTGCGCAAAG
ATTCTTTCCATGTTTCGGGAGCACCTACATCTGCGAACAGCTGTTCTCCATTATGAAACTG
AGCAAAACAAAATACTGCTCCAGTTAAAGGATTCCAGTGGGATTCTGTACTCCACATC
GCAACGTGA

Gene 630. >ENST00000297905 cDNA sequence

ATGGGGGACACCTTCATCCGTACATCGCCCTGCTGGGCTTTGAGAAGCGCTTCGTACCC
AGCCAGCACTATGTGAGTAGCTGGTACATGTTCTGGTGAAATGGCAGGACCTGTCCGAG
AAGGTGGTCTACCGGCGCTTCACCGAGATCTACGAGTTCCATAAAACCTTAAAGAAATG
TTCCCTATTGAGGCAGGGGCGATCAATCCAGAGAACAGGATCATCCCCACCTCCCAGCT
CCCAAGTGGTTTGACGGGCAGCGGGCCGCCGAGAACCAACAGGGCACACTTACCGAGTAC
TGCAGCACGCTCATGAGCCTGCCCACCAAGATCTCCCGCTGTCCCACCTCCTTGACTTC
TTCAAGGTGCGCCCTGATGACCTCAAGCTCCCCACAGACAACAGACAAAAAAGCCAGAG
ACATACTTGATGCCCAAAGATGGCAAGAGTACCGCGACAGACATCACCGGCCCCATCATC
CTGCAGACGTACCGCGCCATTGCCGACTACGAGAAGACCTCGGGCTCCGAGATGGCTCTG
TCCACGGGGGACGTGGTGGAGGTCTGTGGAGAAGAGCGAGAGCGGTTGGTGGTTCTGTGAG
ATGAAAGCAAAGCGAGGCTGGATCCCAGCATCCTTCCTCGAGCCCCTGGACAGTCTGAC
GAGACGGAAGACCCTGAGCCCACTATGCAGGTGAGCCATACGTCGCCATCAAGGCCTAC
ACTGCTGTGGAGGGGGACGAGGTGTCCCTGCTCGAGGGTGAAGCTGTTGAGGTCAATTCAC
AAGCTCCTGGACGGCTGGTGGGTTCATCAGGAAAGACGACGTACAGGCTACTTTCCGTCC
ATGTACCTGCAAAAGTCGGGGCAAGACGTGTCCCAGGCCAACGCCAGATCAAGCGGGGG
GCGCCGCCCCGAGGTGTCATCCGCAACGCGCACAGCATCCATCAGCGGTGCGGGAAG
CGCCTCAGCCAGGACGCCTATCGCCGCAACAGCGTCCGTTTCTGCAGCAGCGACGCCGC
CAGGCGCGGCCGGGACCGCAGAGCCCCGGGAGCCCGCTCGAGGAGGAGCGGCAGACGCAG
CGCTCTAAACCGCAGCCGGCGGTGCCCCCGCGCCGAGCGCCGACCTCATCCTGAACCGC

FIGURE 1 (CONT'D)

TGCAGCGAGAGCACCAAGCGGAAGCTGGCGTCTGCCGTCTGAGGCTGGAGCGCAGTCCCC
AGCTAGCGTCTCGGCCCTTGCCGCCCCGTGCCTGTACATACGTGTTCTATAGAGCCTGGC
GTCTGGACGCCGAGGGCAGCCCCGACCCCTGTCCAGCGCGGCTCCCGCCACCCTCAATAA
ATGTTGCTTGGAGTGG

Gene 631. >ENST00000335657 cDNA sequence

ATGGTCATAGCGTATTTTCAGCCGGGCGGCCTCCCCCTCCTGGCAATACCAACGCATTTCAT
TTCTTCCTGGCTCTCTATCTGGCCAATGACATGGAGGAGGACGACGAGGCCCCCAAACAA
AACATCTTCTACTTCCTGTACGAGGAGACCCGCTCTCATATACCCTTGCTCAGTGAGCTT
TGGTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAACTGCTCTCAGATAGCC
TTGTTCCGGAAGTATCGGTTCCACTTCTTTTGTTCATGCGCTGCAGGGCTTGGGTTTCC
CTGGAGGAGTTGGAAGAGATCCAGGCTTATGACCCAGAGCACTGGGTGTGGGCGCGAGAT
CGCGCCACCTTTCCTAG

Gene 632. >ENST00000311576 cDNA sequence

TTTAGTACAGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATT
TGCTCTGGGCCGGTGGTACTGAGTCTAAGCACTGCGGTGAAGAAGATAGTAGGAAACAGT
CTGGATGCTGGTGCCACTAATATTGATCTAAAGCTTAAGGACTATGGAATGGATCTCATT
GAAGTTTCAGGCAATGGATGTGGGGTAGAAGAAGAAACTTCGAAGGCTTAACCTCTGAAA
CATCACACATCTAAGATTCTGAGAGTTTGCCGACCTAACTCGGGTTGAAACTTTTGGCTTT
CGGGGGAAAGCTCTGAGCTCACTTTGTGCACTGAGTGATGTACCATTTCTACCTGCCAC
GTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGAAA
ACCCCTACCCCCACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTA
CCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCCTTC
GCCTTCTGCGGTGATTGTCTAGTTTCTTGAGGGCTCCCCAGCCATGCTTCCTGTACAGCCT
GCAAACTGACTCCTAGAAAGTACCCACCCACCCCTGCTCCTTGAGGACAACGTGATC
ACTGTATTTCAGCTCTGTCAAGAATGGTCCAGGTTCTTCTAGATGA

Gene 633. >ENST00000329909 cDNA sequence

ATGTGGGGTAGAAGAAGAAACTTCGAAGGCTTAATGATGTCACCATTTCTACCTGCCAC
GTATCGGCGAAGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGAAA
ACCCCTACCCCCACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTA
CCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCCTTC
GCCTTCTGCGGTGATTGTCTAGTTTCTTGAGGGCTCCCCAGCCATGCTTCCTGTACAGCCT
GCAAACTGACTCCTAGAAAGTACCCACCCACCCCTGCTCCTTGAGGACAACGTGATC
ACTGTATTTCAGCTCTGTCAAGAATGGTCCAGGTTCTTCTAGATGA

Gene 634. >ENST00000314503 cDNA sequence

GCCCCGGCGGCAGCTGTCCCCGAGGCGGGAGGAGCCCGAGGGGCGCGAGCCCCGCATGGAT
TTTATATTGGAAGACATGGATCTTGCTGCCAACGAGATCAGCATTATGACAACTTTCA
GAGACTGTTGATTTGGTGAGACAGACCGGCCATCAGTGTGGCATGTCAGAGAAGGCAATT
GAAAAATTTATCAGACAGCTGCTGGAAAAGAATGAACCTCAGAGACCCCCCGCAGTAT
CCTCTCCTTATAGTTGTGTATAAGGTTCTCGCAACCTTGGGATTAATCTTGCTCACTGCC
TACTTTGTGATTCAACCTTTTCAGCCCATTAGCACCTGAGCCAGTGCTTTCTGGAGCTCAC
ACCTGGCGCTCACTCATCCATCACATTAGGCTGATGTCCTTGCCATTGCCAAGAAGTAC
ATGTCAGAAAATAAGGGAGTTTCTCTGCATGGGGGTGATGAAGACAGACCCCTTTCCAGAC
TTTGACCCCTGGTGGACAAACGACTGTGAGCAGAATGAGTCAGAGCCCATTCCTGCCAAC
TGCACTGGCTGTGCCAGAAACACCTGAAGGTGATGCTCCTGGAAGACGCCCCAAGGAAA
TTTGAGAGGCTCCATCCACTGGTGATCAAGACGGGAAAGCCCTGTTGGAGGAAGAGATT
CAGCATTTTTTTGTGCCAGTACCCTGAGGCGACAGAAGGCTTCTCTGAAGGGTTTTTCGCC
AAGTGGTGGCGCTGCTTTCTGAGCGGTGGTTCCCATTTCTTATCCATGGAGGAGACCT
CTGAACAGATCAGAAATGTTACGTGAGCTTTTTCTGTTTTCACTCACCTGCCATTTCCA
AAAGATGCCTCTTTAAACAAGTGCTCCTTTCTTCAACCAGAACCTGTTGTGGGGAGTAAG
ATGCATAAGATGCCTGACCTATTTATCATTGGCAGCGGTGAGGCCATGTTGCAGCTCATC
CCTCCCTTCCAGTGCCGAAGACATTGTCTAGTCTGTGGCCATGCCAATAGAGCCAGGGGAT
ATCGGCTATGTGCACACCACCACTGGAAGGTCTACGTTATAGCCAGAGGGGTCCAGCCT
TTGGTCATCTGCGATGGAACCGCTTTCTCAGAACTGTAGGAAATAGAACTGTGCACAGGA
ACAGCTTCCAGAGCCGAAAACAGGTTGAAAGGGGAAAAATAAAAAAAGAACGATGAAA

FIGURE 1 (CONT'D)

CTGCTTTCTGGGGGTTGGTTACTTAGTTACCTGCCCTTTGCATGCATGTGTGAACCAGCT
 GTGAGCTGCAAGGCAGTGGCCAGAGCCTCGCCCTCCTGACTCTTCCTGCAGGTGGCTCAG
 GAAGGATTAGCCTGGCCACTTGGCTAGGACTCTGCCAGCACCCATCTGAGACTGACCTC
 TTCGGGGCCTTTGGAACTATGACCTTGATGCTGCCCTTCAGGCAGGAAACAGGGCTGGT
 GCCTTTCTTCACCTGCATGGCCAGCTTCCTTCCCTGGCAGTGGAGAGGGCAGCCAACAGG
 TTCTAATGTGAGAGCCATCCTTTACCAGGTGGGCCTGCTTGTCCCTGTCTTGCTGCCAC
 ATCACTCTACTTTTTTGAAGGCCATGGCTGATTAAAGAAGTTCTGTAGTTTCCCAAGCA
 AAGTGAATCTAGAAACAGTGAAGAAAGTTAGATAACTTTGAATTGCATTCAAGAAGTA
 CACTTCTTTCCATTGTCCGTGGCTCTTGGAGTCTCCGTGATGCCAGGCTAGAGTCTGAT
 TATATAATAATTCAAAATGGTAACTCCCAAGGTAATGCTTTCTTCCATTTTATCAGGTTT
 TTTTATCCCACTGCACCCCTCCCTTCTCCCTTGCTATCTGGATGGCTTCTCAGAAG
 CTCGGCCCTAGTCTCCTGCTTGGCGGGCCAGAGCCCACTACTGCTGAGGCAGCACT
 GCTCTCGTCAGCTGTGTTGCCTTTACCAAGTGTCTTCAGAGGGTTATGAGTTAGAGTAGC
 TGGCCTGGGGAGAGGGTGCCTCCCTGGGTTTGATCTTTAGGGTCTGACTTTCTGCAGAGA
 AGATGTTTTACAGATGTGTCAAAGCTGATGTAATGTGGTTGGGGAGGAAATCCAGACCC
 AAAGTGTGTGTGAGCTGGGTGTACAACCTGCCTATGTGATCCTCTGTCTTAAATGATTTT
 TGTCTGTGCTGCGAAACAAAGACAAGGTGAGGTGTTTTCTTTTTTGTAAATAATAAAG
 CTGTGTGTTTTCTGATTGGATGATTCACTATGTGCATTGTTTTCTCCTAAGTGCTTTTGT
 AGGTAGCAATCAAATGGTGTAAATAAGGATGTTCTTTTCTGTTCTTTTTATTTTTTCT
 CTCTTTATTATTCTTTTATTGACCACTAGATAGCTGGCCACTGGTCATGCCATTGCCA
 AGATGAAGAAAAGCAAACCTACACTTTGGCCTCTGGTTCTGAATTGCAGAAATCAAAGGA
 TGCAGTAGGTGTCTATGTGAGAATTATGGATCAGAGGCAGACAATGACGAGTGAAGATGG
 TTGTGAAGCCCTCTTCATTCTGGAGGAGCCTGCATCTCATCTCTCAGGCCCTCTTTCTC
 TGTGGGTCTCATGAACAGCAGTGGGGACCATGAGCACTTGAATGGCCTGTTTGTCTATG
 GGCTTGCAAAGGACAAGCAGAGTTCAAGAGCTCAGGATAGAAACATCAGAGCCTCCTCC
 ACGGGCTTCAGTGAAACTCCGATGAACTGTACCTGAGGGAATTTTTCTTAATCAACCCC
 TTGTGTGGATGAATACAGGAACAACAAACTTGTGTACGTATGAAAGTCATGTTGTTAAG
 CAGTTATGATTTAAGAGGTTTTAAGTCAGAGGGATCATCTGGAGGCCGCTTTGTGCAAG
 CTTTTACAGCCTTCTGCAGTGTCTTACCCTGGCTGTACATGGGGAAGGGCTATGTGTAA
 ACAAGTGCTTTAGAGGCCTCTGAGAGTTTTTAAATATCAGACCCATTAAACAAAGAGAGG
 GTTTCTTAGGAACAAAGCAACTATTTTGAATGACTGAGATCTCTGTTTTGTTTCTGTGAGT
 TACTCTGTATTCCTTTCCCATTTCACTCTTGCCCTTCACATCTTAAATGTCCATAAGAA
 ACCCTTGTCATGTGTTGGTATTCTGAGGCATCCCGTGGGAAAGTCCCCTAAGTCCATTTT
 GTACTTCAACAAAAATGACTGTAGCAGAAGATAAGTGGAGACTTTTATGGATATACTAC
 TCATTTTACTTAAATCTACCCAGTTCAGACTTGAATGTAAACTTGTATTAGGGGAAAT
 TCTCAAAGAGGGTTTTCTACATACAGAAAGCAGTTCAACTTCTCAAGTTAATTTTGT
 AAGCAGAATCTACTACTGGCCAGAGCGACAGGAGTGGCTAGGGGTTGCCAGCCAGTCCCT
 TTCTGATGATCAAGGCCCTGCACAGCAGGATGCCACAGGATGCCCCTGCCATCTAGCTGG
 AAGCATCAAAAGTCCCTCTGTATGACCCGGTGTGGGAAAGAGGGTTGTGAGGATGAGAAA
 GTGGGGCTGCAGGGTGACGATAAGACCACCTAACCAACTCCCACCTCCACCACCACAAT
 AAGAACAAACTGTAGGGCTCTAAAGAGAGGGGGTGGTTTACAAGTTTATTGAGCATTTA
 CTAGGAAGTGACATGGCGATGACCTCTGTACATGAGTTAGGTTCACTTTTATGTGGCCTC
 CCACTACAGAGATGCGTATGCCAGAAAGTCAGCTCTCTGAGGAGACAGGCTACTTTGGCC
 CCAGTTTGAAGCATTCTGTCCAAATGTCTGAGCTCTCCAGCAGTCAAGTAGTGAATGGA
 TACCATACTTATTATGGTTGATGAAAAAAGGCAGAGCTTATCCTCAATTTTTTTTAGGGA
 AGAGAAGGAATAAAATAAAGTGGTTCAAGCTGGGCATGGTGGCTCACACCTGTAATTGC
 AGCACTTTGGGAGGCTGAGGCAGGCAGATCACTTGAGGTGAGGAGTTCAAGACCAGCCTG
 GCCAACAGGGTGAAACCCCATCTCTACTAAAAATACAAAAATTACCCAGGCGTGATGGTG
 GCGCGCTGTAATCCAGCTACACAGGAAGCTGAGGCAGGAAAATTGCTTGAACCGGGGAG
 GCGGAGATTGCAGTGAGCCAAGATTGTGCCACTTCATTCCAGCCTGGGCGACAGAGCGAA
 ACTCTGTCAAAGGAAAGG

Gene 635. >ENST00000297048 cDNA sequence

CCTGGGTGCAACCAGTCACAGCTCTGCAGAGGTTACTGTGATTTTGGCCCTGAAGGATCT
 GTCCACAACCTTAGGAACTCACACAGCTTTTGGCCTGAGCCCCCGTTACCAAGAGAAAGGA

FIGURE 1 (CONT'D)

GGTTTTTGCCAAGGACTCCAAGGGGAGTGCACCTTGATGCTGGTCTGGGACCCAAAGCGCCC
AGCCCTCCCTGAGACATTGTGTGAGTCGGGCTGGGCCTCAAACACGGCCCCCACTGCCCC
ACCCAGCCAGGGTGGTGCTTGTGTGGGAAGGACTTTAAATCCAGCTGCCAGACCCCTGG
ACGGGAGAAGGAGAGACGGCTGGCCACCATGCACGGCTCCTGCAGTTTCCTGATGCTTCT
GCTGCCGCTACTGCTACTGCTGGTGGCCACCACAGGCCCCGTTGGAGCCCTCACAGATGA
GGAGAAACGTTTGTATGGTGGAGCTGCACAACCTCTACCGGGCCAGGTATCCCCGACGGC
CTCAGACATGCTGCACATGAGATGGGACGAGGAGCTGGCCGCCTTCGCCAAGGCCTACGC
ACGGCAGTGCGTGTGGGGCCACAACAAGGAGCGCGGGCGCCGCGGCGAGAATCTGTTTCG
CATCACAGACGAGGGCATGGACGTGCCGCTGGCCATGGAGGAGTGGCACCACGAGCGTGA
GCACTACAACCTCAGCGCCGCCACCTGCAGCCCAGGCCAGATGTGCGGCCACTACACGCA
GGTGGTATGGGCCAAGACAGAGAGGATCGGCTGTGGTTCCTCACTTCTGTGAGAAGCTCCA
GGGTGTTGAGGAGACCAACATCGAATTACTGGTGTGCAACTATGAGCCTCCGGGGAACTG
GAAGGGGAAACGGCCCTACCAGGAGGGGACTCCGTGCTCCCAATGTCCTCTGGCTACCA
CTGCAAGAACTCCCTCTGTGAACCCATCGGAAGCCCGGAAGATGCTCAGGATTTGCCTTA
CCTGGTAAGTGAAGCCCCATCCTTCGGGGCGACTGAAGCATCAGACTCTAGGAAAATGGG
TACTCCTTCTTCCCTAGCAACGGGGATTCCGGCTTCTTGGTAACAGAGGTCTCAGGCTC
CCTGGCAACCAAGGCTCTGCCTGCTGTGGAAACCCAGGCCCCAACTTCCTTAGCAACGAA
AGACCCGCCCTCCATGGCAACAGAGGCTCCACCTTGCGTAACAACCTGAGGTCCCTTCCAT
TTTGGCAGCTCACAGCCTGCCCTCCTTGGATGAGGAGCCAGTTACCTTCCCCAAATCGAC
CCATGTTCTTATCCCAAATCAGCAGACAAAGTGACAGACAAAACAAAAGTGCCCTCTAG
GAGCCCAGAGAACTCTCTGGACCCCAAGATGTCCCTGACAGGGGCAAGGGAACTCCTACC
CCATGCCCAGGAGGAGGCTGAGGCTGAGGCTGAGTTGCCTCCTTCCAGTGAGGTCTTGGC
CTCAGTTTTTCCAGCCAGGACAAGCCAGGTGAGCTGCAGGCCACACTGGACCACACGGG
GCACACCTCCTCCAAGTCCCTGCCCAATTTCCCAATACCTCTGCCACCGCTAATGCCAC
GGGTGGGCGTGCCCTGGCTCTGCAGTCGTCTTGCCAGGTGCAGAGGGCCCTGACAAGCC
TAGCGTCGTGTGAGGGCTGAACTCGGGCCCTGGTCATGTGTGGGGCCCTCTCCTGGGACT
ACTGCTCCTGCCTCCTCTGGTGTGGCTGGAATCTTCTGAAGGGGATACCACTCAAAGGG
TGAAGAGGTGAGCTGTCTCCTGTGCATCTTCCCCACCCTGTCCCAGCCCCATAACAAGA
TACTTCTTGGTTAAGGCCCTCCGGAAGGGAAAGGCTACGGGGCATGTGCCTCATCACACC
ATCCATCCTGGAGGCACAAGGCCTGGCTGGCTGCGAGCTCAGGAGGCCGCTGAGGACTG
CACACCGGGCCCAACCTCTCCTGCCCCCTCCCTCCTGAGTCCTGGGGGTGGGAGGATTTG
AGGGAGCTCACTGCCTACCTGGCCTGGGGCTGTCTGCCACACAGCATGTGCGCTCTCCC
TGAGTGCTGTGTAGCTGGGGATGGGGATTCTAGGGGCAGATGAAGGACAAGCCCCACT
GGAGTGGGGTTCTTTGAGTGGGGGAGGCAGGGACGAGGGAAGGAAAGTAACTCCTGACTC
TCCAATAAAAACCTGTCCAACCTG

Gene 636. >ENST00000259958 cDNA sequence

GCGGGAGCCGGAGCTGGAGCCGGAGCTCGCGGCGGAGCGGCGGCGGGGGTCTGAGGCTCGA
GCTCGCGATCCACCGCCGCGCACCGCGCACATCCTCGCCACCCTCGGCCTGCGGCTCAG
CCCTCGGCCCGCAGGATGGATGGCGGGTCAGGGGGCCTGGGGTCTGGGGACAACGCCCCG
ACCACTGAGGCTCTTTTCTGTGGCACTGGGCGCGGGCGTGACGGCGCTCAGCCATCCCCTG
CTCTACGTGAAGCTGCTCATCCAGGTGGGTCTATGAGCCGATGCCCCCAACCTTGGGACC
AATGTGCTGGGGAGGAAGGTCTCTATCTGCCGAGCTTCTTCACTACGCCAAGTACATC
GTGCAAGTGGATGGTAAGATAGGGCTGTTCCGAGGCCTGAGTCCCAGGCTGATGTCCAAC
GCCCTCTCTACTGTGACTCGGGGTAGCATGAAGAAGTTTTTCCCTCCAGATGAGATTGAG
CAGGTTTTCCAACAAGGATGATATGAAGACTTCCCTGAAGAAAGTTGTGAAGGAGACCTCC
TACGAGATGATGATGCAGTGTGTGTCCCGCATGTTGGCCACCCCTGCATGTCTCTCA
ATGCGCTGCATGGTCCAGTTTGTGGGACGGGAGGCCAAGTACAGTGGTGTGCTGAGCTCC
ATTGGGAAGATTTTTCAAAGAGGAAGGGCTGCTGGGATTCTTCTGTTGGATTAAATCCCTCAC
CTCCTGGGCGATGTGGTTTTTCTTGTGGGGCTGTAACTGCTGGCCCACTTCATCAATGCC
TACCTGGTGGATGACAGCGTGAGTGACACCCAGGGGGCTGGGAAACGACCAGAATCCA
GGTTCCAGTTTCAAGCAGGCCCTGGCCATCCGGAGCTATACCAAGTTCTGTATGGGGATT
GCAGTGAGCATGCTGACCTACCCCTTCTGCTAGTTGGCGACCTCATGGCTGTGAACAAC
TGCGGGCTGCAAGCTGGGCTCCCCCTTACTCCCCAGTGTTCAAATCCTGGATTCACTGC
TGGAAGTACCTGAGTGTGCAGGTGAGCAAGCACTGGACGGCGGAGGCCTTTCTGTTCTT

FIGURE 1 (CONT'D)

TGCTACATCCTTCAGCTGAAATGGTTTTGTGGATGCTTCATTGCATGCAAAGATAAGTGG
 TTTTCATGGAATTCAATATTGTGAGGAGATACTTGGTATCTATAAGGCATTTAAGTTTTCA
 TCTTACATAAATTTAGAAAGGATTTGAGGTGGCTAAGTGTGGGTTTATTTTAAGATTATA
 CATCAGACAAGACCTTTTCTTCTTTGAGTCTTAAAGACTCTTAGGATAAGGATAAGAGAA
 CTCTGGCCAGGTGGCAGGTGGTAAAGCCCAAGAACTGCTTCTCCTTCAAGTAACATGGG
 CTGAAAATTGAGGTCTGTAACAGTTGAGCTGAGTTCTGGGTTGTTAGGGCGGCTGGC
 ATTGGAAACCGACTCCTCCCTCCTGCAGGACATTCTGGGCCCAGGAGAGCCTGTGGGTG
 GGGCTGGGCCACGTGGGGAACCTGGCAGCAGTACCAACCTTGGGTTCTCGTGTTCTGTACC
 GAAGCTACCTCTCCGTAGCTGGAGCTCTTGGGCCCAGCAGTCAGGGGTCCAGGCTTTGGC
 CGAGGGCAGAACCTTGCCCTTTTCTGGCCTTGATTTGCCTCGCAGTGAAATGGGGCAGTG
 GCCCGAGGGAGCCAGAACTCTGAGTGGCCTCGAGGCTGAGAAGAGGACAGATGGGAGGG
 AAGCAGGGAGGAGAGCCGAGTTCTTCCAGTGGCCCTGGTCAGCGTGAGTGTGTCTCGT
 CCTCCTATGAGCACTGAAAGAGTCTTAGACCACTTGGGCTCTGAAGCAAGAGGGGCAAT
 GAGCCTCCTCTCTAGGGCTCTCCTACAGAGTAGCCCCAAGACACCCCTGGGCAGGAAAT
 GAACCGCTCCCTTCTGCTTCAACACAGGCAGATTCTGCCCTCCAGGGATGTAGGCCGAGG
 CCGTCCACCCCGGAGCTGGGTCTTTGAGCTCCTGGACCCTTCTTTGCCTGACACTGGCCT
 TCCTCTCGGAGGGACAAGGAAGCGTGGCCTCCCTTTCACTCACTTACTTTTCTTCTGG
 TCCAGGGCCAGCTCTTCCGAGGCTCCAGCCTGCTTTTCCGCCGGGTGTCTCAGGATCAT
 GCTTTGCCCTGGAGTAACCTGAATCATCTAAAAACACGGTCTCAACCTGGCCACCGTGG
 GTGAGGCCTGACCACCTTGGGACACCTGCAAGACGACTCCAACCCAACAACAACAGATG
 TGCTCCAGCCAGCCGGGCTTCAGTTCCATATTTGCCATGTGTCTGTCCAGATGTGGGGT
 TGAGCGGGGTGGGGCTGCACCCAGTGGATTGGGTCAACCGGCAGACCTAGGGAAGGTGA
 GGCGAGGTGGGGAGTTGGCAGAATCCCCATACCTCGCAGATTTGCTGAGTCTGTCTTGTG
 CAGAGGGCCAGAGAATGGCTTATGGGGGCCAGGTTGGATGGGGAAAGGCTAATGGGGTC
 AGACCCACCCCGTCTACCCCTCCAGTCAGCCAGCGCCCATCCTGCAGCTCAGCTGGGA
 GCATCATTCTCCTGCTTTGTACATAGGGTGTGGTCCCCTGGCACGTGGCCACCATCATGT
 CTAGGCCTATGCTAGGAGGCAAATGGCCAGGCTCTGCCTGTGTTTTTCTCAACACTACTT
 TTCTGATATGAGGGCAGCACCTGCCTCTGAATGGGAAATCATGCAACTACTCAGAATGTG
 TCCTCCTCATCTAATGCTCATCTGTTAATGGTGATGCCTCGCGTACAGGATCTGGTTAC
 CTGTGCAGTTGTGAATACCCAGAGGTTGGGCAGATCAGTGTCTCTAGTCTTACCCAGTTT
 TAAAGTTTCATGGTAAGATTTGACCTCATCTCCCGCAAATAAATGTATTGGTGATTTGGA

Gene 637. >ENST00000332017 cDNA sequence

GGCTGGAGCTGCCTTGTGACAGGAGCAGGAGGGCTTCTGGGTGAGAGGATCGTCCGCCTG
 TTGGTGAAGAGAAGGAACTGAAGGAGATCAGGGCCTTGGACAAGGCCTTCAGACCAGAA
 TTGAGAGAGGAATTTTCTAAGCTCCAGAAACAAGACCAAGATGACAGTGCTAGAAGGAGAC
 ATTCTGGATCAGTCATGCCTGAAGAGAGCCTGCCAGGACATCTCGGTAGTCATCCACACC
 GCCTCTATCATTGACATCTTCCGGTGTCACTCACAGAGAGTCTATCATGAACTTCAACGTG
 AAAGGTACCCAGCTCCTGTTAGAGGCCTGTGTCCAAGCTAGTGTGCCAGTCTTCATCTAC
 ACCAGTAGCATAGAGGTAGCCGGGCCCAACTCCTACAAGGAAATCATCCAGAATGGCCAT
 GAAGAAGAGCCTCTGGAAAAACATGGCCCGCTCCATACCCACAAGCAAAAAGCTTGCT
 GAGAAGGCTGTACTGGCGGCTAACGGGTGGAATCTGAAAAACGGCGGCACCCTGTACACT
 TGTGCCTTACGACCCATGTATATCTATGGGGAAGGAAGCCGATTCTTTCTGCTAGTATA
 AACGAGGCCCTGAACAACAATGGGATCCTGTCAAGTGTTGGAAAGTTCTCCACTGTTAAC
 CCAGTCTATGTTGGCAATGTGGCCTGGGCCCACATTCTGGCCTTGAGGGCCCTGCAGGAC
 CCCAAGAAGGCCCAAGCATCCGAGGACAGTTCTACTATATCTCAGATGACACGCCTCAC
 CAAAGCTATGATAACCTTAATTACACCTGAGCAAAGAGTTCCGGCCTCCGCCTTGATTCC
 AGATGGAGCTTTCTTTTATCCCTGATGTATTGGATTGGCTTCTGCTGGAAATAGTGAGC
 TTCCTACTCAGGCCAATTTACACCTATCGACCGCCCTTCAACCGCCACATAGTCACATTG
 TCAAATAGCGTATTACCTTCTCTTATAAGAAGGCTCAGCGAGATCTGGCGTATAAGCCA
 CTCTACAGCTGGGAGGAAGCCAAGCAGAAAACGGTGGAGTGGGTGGTTCCCTTGTGGAC
 CGGCACAAGGAGACCCTGAAGTCCAAGACTCAGTGATTTAAGGATGACAGAGATGTGCAT
 GTGGGTATTGTTAGGAGATGTCATCAAGCTCCACCTCCTGGCCTCATACAGAAAGTGAC
 AAGGGCACAAGCTCAGGTCTGCTGCCTCCCTTTCATACAATGGCCAACTTATTGTATTCT
 CTATGTATCAAAACCTGCGCAGTCATTGGCCCAACAAGAAGGTTTCTGTCTAATCAT

FIGURE 1 (CONT'D)

ATACCAGAGGAAAGACCATGTGGTTTGCTGTTACCAAATCTCAGTAGCTGATTCTGAACA
ATTTAGGGACTCTTTTAACCTTGAGGGTCGTTTTGACTACTAGAGCTCCATTTCTACTCTT
AAATGAGAAAGGATTTCTTTCTTTTAAATCTTCCATTCTTCACATAGTTTGATAAAAA
GATCAATAAATGTTTGAATGTTT

Gene 638. >ENST00000331050 cDNA sequence

GGGATGAGGCAGTAAGGACTTGGACTCCTCTGTCCAGCTTTTAACAATCTAAGTTACGCC
CTCTTCTGGGTACGCTAGAATCAGATCTGCTCTCCAGCATCTTCTGTTTCTGGCAAGT
GTTTCTGCTACTTTGGATTGGCCACGATGGGCTGGAGCTGCCTTGTGACAGGAGCAGGA
GGGCTTCTGGGTGAGAGGATCGTCCGCTGTTGGTGGAAGAGAAGGAACTGAAGGAGATC
AGGGCCTTGGACAAGGCCTTCAGACCAGAATTGAGAGAGGAATTTTCTAAACTCCAGAAC
AAGATCAAGCTGACAGTGCTGGAAGGAGACATTCTGGATGAGCCATTCTGAAGAGAGCC
TGCCAGGACGTGTGCGTGTTCATCCACACCGCCTGTATCATTGATGTCTTCGGAGTCACT
CACAGACAGTCTATCATGAATGTCAATGTGAAAGGTACCCAGCTCCTGTTAGAGGCCTGT
GTCCAAGCTAGTGTGCCAGTCTTCATCTACACCAGTAGCATAGAGGTAGCCGGGCCCCAAC
TCCTACAAGGAAATCATCCAGAATGGCCATGAAGAAGAGCCTCTGGAAAAACATGGCCC
GCTCCATACCCACACAGCAAAAAGCTTGCTGAGAAGGCTGTACTGGCGGCTAACGGGTGG
AATCTGAAAAACGGCGGCACCCTGTACACTTGTGCCTTACGACCCATGTATATCTATGGG
GAAGGAAGCCGATTCTTTCTGCTAGTATAAACGAGGCCCTGAACAACAATGGGATCCTG
TCAAGTGTGGAAAGTTCTCCACTGTTAACCAGTCTATGTTGGCAATGTGGCCTGGGCC
CACATTCTGGCCTTGAGGGCCCTGCAGGACCCCAAGAAGGCCCAAGCATCCGAGGACAG
TTCTACTATATCTCAGATGACACGCCTCACCAAAGCTATGATAACCTTAATTACACCCTG
AGCAAAGAGTTTCGGCCTCCGCTTGATTCCAGATGGAGCTTTCTTTTATCCCTGATGTAT
TGGATTGGCTTCCTGCTGGAAATAGTGAGCTTCTACTCAGGCCAATTTACACCTATCGA
CCGCCCTTCAACCGCCACATAGTCACATTGTCAAATAGCGTATTACCTTCTCTTATAAG
AAGGCTCAGCGAGATCTGGCGTATAAGCCACTCTACAGCTGGGAGGAAGCCAAGCAGAAA
ACGGTGGAGTGGGTTGGTTCCCTTGTGGACCGGCACAAGGAGACCCTGAAGTCCAAGACT
CAGTGA

Gene 639. >ENST00000235547 cDNA sequence

ATGACGGGCTGGAGCTGCCTTGTGACAGGAGCAGGAGGGTTTCTGGGACAGAGGATCATC
CGCCTCTTGGTGAAGGAGAAGGAGCTGAAGGAGATCAGGGTCTTGGACAAGGCCTTCGGA
CCAGAATTGAGAGAGGAATTTTCTAAACTCCAGAACAAAGACCAAGCTGACAGTGCTGGAA
GGAGACATTCTGGATGAGCCATTCTGAAGAGAGCCTGCCAGGACGTCTCGGTTCATCATC
CACACCGCCTGTATCATTGATGTCTTCGGTGTCACTCACAGAGAGTCTATCATGAATGTC
AATGTGAAAGGTACCCAGCTCCTGTTAGAGGCCTGTGTCCAAGCTAGTGTGCCAGTCTTC
ATCTACACCAGTAGCATAGAGGTAGCCGGGCCCCAACTCCTACAAGGAAATCATCCAGAAT
GGCCATGAAGAAGAGCCTCTGGAAAAACATGGCCCCCTCCATACCCACACAGCAAAAAG
CTTGCTGAGAAGGCTGTACTGGCGGCTAACGGGTGGAATCTGAAAAACGGCGGCACCCTG
TACACTTGTGCCTTACGACCCATGTATATCTATGGGGAAGGAAGCCGATTCTTTTCTGCT
AGTATAAACGAGGCCCTGAACAACAATGGGATCCTGTCAAGTGTGGAAAGTTCTCCACT
GTTAACCAGTCTATGTTGGCAATGTGGCCTGGGCCACATTCTGGCCTTGAGGGCCCTG
CAGGACCCCAAGAAGGCCCAAGCATCCGAGGACAGTTCTACTATATCTCAGATGACACG
CCTCACCAAAGCTATGATAACCTTAATTACACCCTGAGCAAAGAGTTTCGGCCTCCGCTT
GATTCCAGATGGAGCTTTCTTTTATCCCTGATGTATTGGATTGGCTTCCTGCTGGAAATA
GTGAGCTTCTACTCAGGCCAATTTACACCTATCGACCGCCCTTCAACCGCCACATAGTC
ACATTGTCAAATAGCGTATTACCTTCTCTTATAAGAAGGCTCAGCGAGATCTGGCGTAT
AAGCCACTCTACAGCTGGGAGGAAGCCAAGCAGAAAACGGTGGAGTGGGTTGGTTCCCTT
GTGGACCGGCACAAGGAGACCCTGAAGTCCAAGACTCAGTGA

Gene 640. >ENST00000303184 cDNA sequence

ATGGGCTGGAGCTGCCTTGTGACAGGAGCAGGAGGGCTTCTGGGTCAGAGGATCGTCCGC
CTGTTGGTGAAGAGAAGGAACTGAAGGAGATCAGGGCCTTGGACAAGGCCTTCAGACCA
GAATTGAGAGAGGAATTTTCTAAGCTCCAGAACAGGACCAAGCTGACTGTACTTGAAGGA
GACATTCTGGATGAGCCATTCTGAAAAGAGCCTGCCAGGACGTCTCGGTCTGTCATCCAC
ACCGCCTGTATCATTGATGTCTTTGGTGTCACTCACAGAGAGTCCATCATGAATGTCAAT
GTGAAAGGTACCCAGCTACTGTTGGAGGCCTGTGTCCAAGCCAGTGTGCCAGTCTTCATC

FIGURE 1 (CONT'D)

TACACCAGTAGCATAGAGGTAGCCGGGCCCAACTCCTACAAGGAAATCATCCAGAACGGC
CACGAAGAAGAGCCTCTGGAAAACACATGGCCCACTCCATACCCGTACAGCAAAAAGCTT
GCTGAGAAGGCTGTGCTGGCGGCTAATGGGTGGAATCTAAAAAATGGTGATACCTTGTAC
ACTTGTGCGTTAAGACCCACATATATCTATGGGGAAGGAGGCCCATTCCTTTCTGCCAGT
ATAAATGAGGGCCCTGAACAACAATGGGATCCTGTCAAGTGTGGAAAGTTCTCTACAGTC
AACCAGTCTATGTTGGCAACGTGGCCTGGGCCACATTCTGGCCTTGAGGGCTCTGCGG
GACCCCAAGAAGGCCCAAGTGTCCGAGGTCAATTCTATTACATCTCAGATGACACGCCT
CACCAAAGCTATGATAACCTTAATTACATCCTGAGCAAAGAGTTTGGCCTCCGCCTTGAT
TCCAGATGGAGCCTTCCTTTAACCTGATGTACTGGATTGGCTTCCTGCTGGAAGTAGTG
AGCTTCCTACTCAGCCCAATTTACTCCTATCAACCCCCCTTCAACGCCACACAGTCACA
TTATCAAATAGTGTGTTACCTTCTCTTACAAGAAGGCTCAGCGAGATCTGGCGTATAAG
CCACTCTACAGCTGGGAGGAAGCCAAGCAGAAAACCGTGGAGTGGGTTGGTTCCCTTGTG
GACCGGCACAAGGAGACCTGAAGTCCAAGACTCAGTGA

Gene 641. >ENST00000256586 cDNA sequence

ATGACAGGCTGGAGCTGCCTTGTGACAGGAGCAGGAGGGTTTCTGGGTGAGAGGATCATC
TGCCTGTTAGTGGAGGAGACAGAGCTGAAGGAGATCAGGGCCTTGGAAGGCCAAATCAT
TCCAATGACCTAACCTCTGCTCACACAGAATCCAGAACAAGATCAAGCTGACAGTGTG
GAAGGAGACATTCTGGATGAGCCATTCTGAAGAGAGCCTGCCAGGACGTGTCGGTCGTC
ATCCACACCGCCTGTATCATTGATGTCTTCGGAGTCACTCACAGACAGTCTATCATGAAT
GTCAATGTGAAAGCATGCTCTTTCTGGGCGGGTACCCAGCTCCTGTTGGAGGCCTGTGTC
CAAGCTACTGTGCCAGTCTTCATCTACACCAGTACCCTCCAGTTAGCCGGGCCCAACTCC
TACAAGGAAATCATTGAGAATGCCCATGAAGAAGACTTTCTGGAAAACACATGGTCTGCT
CCATATCCATACAGCAAAAAGCTTGCTGAGAAGGCTGTGCTGGCAGCTAATGGGTGGACT
CTGAAAATGGTGATACCTTGTACACTTGTGCCTTAAGACCCATGTATATCTATGGGGAA
GGAAGCCCATTTCTTACTGCCAATATAAATGAGGCCCTGAACAACAATGGGATCCTGTCG
AGTGTGAGCAAGTTCTCCACAGCCAACCCAGTCTATGTTGGCAACGTGGCCTGGGCCAC
ATTCTGGCCTTGAGGGCCTTGCGGGACCCCAAGAAGGCCCAAGTGTCTAGGACAGTTC
TACTATATCTCAGATGACACGCCTCACCAAAGTTATGATAACCTTAATTACATCCTGAGC
AAAGAGTTCGGCCCTGCCTTGATTCCAGATGA

Gene 642. >ENST00000286193 cDNA sequence

ATGATGGGCTGGAGCTGCCTTGTGACAGGAGCAGGAGGGTTTCCGGGTGAGAGGATTGTC
AACCTCTTGGTGAAGGAGAAGGAGCTAAAGGAGATCAGGGCCTTGGAAGGCCCTTCAGA
TCAGGATTGAGGGAGAAATTTTCTAAGCTCCAGAACAAGACCAAGATGACAGTGTAGAA
GGAGACATTCTGGATCAGTCATGCCTGAAGAGAGCCTGCCAGGACATCTCGGTAGTCATC
CACACCGCCTCTATCATTTGACATCTTCGGTGTCACTCACAGAGAGTCTATCATGAACCTC
AACGTGAAAGGTACCCAACAGCTGTTGGAGGCCTGTGTCCAAGCTAGTGTGCTAGTCTTC
ATCCATACCAGCAGCATACAGGTAGCCTGGCCCAACTCCTACAAAGAGATTTTCCAGAAT
CGACACAAACAAGAGCATCTGGAAAACACATGGTCTGCTCCATATCCATACAGCAAAAAC
TTGCTGAGAAGGCTGTGCTGGTGGCTAATGTGTGGACTCTGA

Gene 643. >ENST00000263166 cDNA sequence

ACTCCAGTCTCCTGGGACTTTGACTCGCCGTA CTGGCGCGCTCCTGCTGAGGGTCGCCG
GAGATGTGCTCGGCCGCCTTCTACCAGGAGCCTGATCCGTGCCGCCGCCGCCGGATG
GGACCACCAGAGTGCTCTAAAGTCTCCAGTGAATATTGAATTGCTGAGGATTTTGGGAAA
AGACAAATCAAAGTTCCCATTCATGGATCCCTTAGGTGCACCTTCCCAGTTTGTGGATG
TGGATACACTACCAAGCTGGGGTGACTCATGCCAAGATGAATTAAATTCCTCTGATACTA
CAGCTGAAATATTTAGGAAGACACTGTTTCGATCACCTTTTCTTTATAATAAGGACGTCA
ATGGAAAAGTGGTTCTTTGGAAAGGAGATGTGGCATTACTGAACTGTACAGCCATTGTGA
ATACCAGCAATGAAAGTCTCACAGATAAGAATCCTGTGTGAGAAAGTATCTTCATGCTTG
CAGGGCCTGATTTGAAGGAAGATCTCCAGAACTTAAAGGGTGCCGAAACAGGTGAAGCAA
AATTGACAAAAGGATTCAATCTAGCTGCCCCGTTTCATCATTCACACAGTGGGACCTAAAT
ATAAAAGCCGCTATCGCACAGCAGCTGAGAGTTCCCTTTATAGCTGCTACAGAAAAGTAC
TTCAACTAGCAAAAGAGCAGTCAATGTCTTCTGTTGGCTTCTGTGTGTCATCAATTCTGCAA
AACGTGGTTATCCTTTAGAGGATGCAACACACATAGCACTTCGCACTGTAAGAAGATTCC
TAGAGATTATGGGGAAACCATTGAAAAGTAGTATTTGCTGTCTCTGATCTTGAAGAGG

FIGURE 1 (CONT'D)

GTACTTACCAAAAGCTGCTACCTCTCTACTTCCCAAGGTCATTAAAAGAGGAGAATCGAT
 CATTGCCCTACCTACCTGCAGATATTGGAAATGCAGAAGGGGAGCCTGTGGTACCTGAAC
 GACAGATTAGAATAAGTGAGAAACCTGGTGCTCCAGAAGATAACCAAGAAGAGGAGGATG
 AAGGCTTGGGAGTTGATCTCTCTTTTATTGGCTCTCATGCTTTTGCTCGAATGGAAGGAG
 ATATTGACAAGCAAAGAAAACCTGATCCTTCAGGGACAATTATCAGAGGCAGCTCTGCAGA
 AGCAGCATCAAAGAAATTATAATCGCTGGTTATGTCAAGCAAGATCTGAGGATCTGTCTG
 ATATTGCTTCTCTAAAAGCCTTATAACCAACAGGTGTTGATAACTGTGGT CGAACAGTGA
 TGGTGGTAGTTGGAAGAAACATTCTGTAAACATTAATAGATATGGACAAGGCTCTCTTAT
 ATTTTCATT CATGTAATGGATCACATTGCTGTGAAGGAGTATGTATTAGTGTATTTT CACA
 CCCTGACCAGCGAATACAATCACCTGGACTCCGACTTCCTGAAGAAAACCTACGATGTTG
 TTGATGTCAAGTACAAGAGGAATTTGAAGGCTGTTTATTTTGTACATCCACATTTCGTT
 CAAAGGTGTCAACATGGTTTTTTTACCACCTTTTCTGTCTCAGGACTGAAGGACAAAATCC
 ACCATGTGGACAGCCTCCACCAGCTGTTTTCTGCCATATCACCAGAACAGATTGACTTTC
 CTCCTTTTGTCTTGAATATGATGCCAGGGAAAACGGGCCTTACTATACATCATATCCCC
 CATCACCAGATTTGTGACCTGCCATCTTTCAGTGCTTCTTGGTTCC CAGGATGCCACTTC
 CTCCACGAATAGCTACCTGTTGAAGTGATATTCATTGTTGCTGTACAGATCCAGAGAGCC
 TTTTGTCCCCACCTCTCTGGTATTTTTTTTATTGACTGTATATTTTCTGGCACATAAGCAA
 TCTAAAATGGTAGGCCATTCTGAAGTGCACACATTTTAAATTTGTATATTTATATGAAA
 TGGAAATGTT CATTTTTAGATTGTTAATAGAAATTGGGGAGCAACTTTTGAGTATCTTTA
 GTTTCTGAAGGACACCGAATTCTCCATTAGATAAAACCACCAAGACTGTT CACATCATCT
 CTCTAACATTGCAGCTTCCTTTGTGTACTTAAGTGATTCTCGAAATATACAGAACCAAT
 GTATGCTAACAGATGCATTGTTTGTCTTCAGATCCATGGTGTTAATACCATGTATATTTT
 ATAAAGATAATTTGGCTGTGTTAAAAGAGAATTACCTGAGTCCAAGAAATGTGGAAATGTA
 TCTGACAAAAAATCATCAAAATCATTAGCAAAACATAGGACTTAGAATGTTAATGTACAAG
 TTAAGACTAAAGTTTAAGGACTAAGGTTCTTGGATTATATGACTTGTTAAGATTGCCAC
 AGTTCCGATCTCAACAGTGTGGGGTGAAACAAGAAGACTGTATCTTCAGCCTTTTTCTTA
 TAATCATGGATGATTTGGTCTTATTCAAAAGGACCGCACATATTAGTACTCTTAAGAGCA
 TCTTCCAAGACTCCAGCAGTGAGCATTTAGAGAGTGTGTTGTCTTCAGAGTCATGAATG
 ATTTTGTTTAGCTATCAGGTCTACTACCTCTAAGGACATTT CATAGCAGCATCTCTTGAG
 TTGCCTGCATCAGTGTGGAGGAAGTGTGTACAGTGAACAAATCCAGGGAGCTGATAATT
 GGCAAAAGACCCTTTTACCACTCAGGCTCTATTTGTGCCTTAGCTTGGTTATGAGTAAA
 AATTAGAATTATGCTGCCTACCTCACAGAGGTATCATGAAGATAGCATTTAGAAAGGGCT
 TTGTTGTGGTGGGGTATCTTCAGTTAGTTTTTAAATGGGAATAAATATATATGAGGGAAT
 GCTACACAGCACTCCTCTTGTCTTGATAACC

Gene 644. >ENST00000183319 cDNA sequence

ATGCACAGATTGCTTCACCTGTGGTATCAGACATCACAAACATGGGGCTCACCAAGCAGTA
 CCTACGCTATGTTGCTAGTGCGGTCTTTGGCGTTATCGGCAGCCAAAAGGTAATATTGT
 CTTTGTGACACTTCGTGGTGAGAAAGGACGTTATGTGGCAGTACCAGCTTGTGAACACGT
 TTTTCATCTGGGACTTAAGGAAAGGAGAGAAGATTCTTATCCTTCAGGGGCTTAAACAAGA
 AGTTACTTGCTTATGCCCTCCCCAGATGGGCTACACTTAGCTGTTGGGTATGAGGATGG
 GTCGATCCGAATCTTCAGTCTCCTGAGTGGGGAAGGAAATGTGACCTTCAATGGT CACAA
 AGCAGCTATCACTACCTTGAAGTATGATCAGCTAGGAGGCAGACTGGCATCTGGGTC CAA
 GGACACAGATATTATTGTATGGGATGTGATCAATGAAAGTGGTCTGTACCGTCTAAAGGG
 GCACAAGGATGCCATCACACAAGCATTGTTTCTACGAGAAAAGAACCTGCTAGTTACTAG
 TGGGAAAGATAACCATGGTGAAATGGTGGGACCTTGATACTCAGCACTGCTTTAAACAAT
 GGTGGCCACCGGACTGAGGTATGGGGGTTGGTTCTGTTGT CAGAAGAAAAGCGACTCAT
 CACTGGGGCCTCAGACAGTGAACCTGAGGGTATGGGACATAGCTTATCTGCAAGAGATTGA
 AGACCCGGAAGAACCAGACCCCAAGAAAATCAAAGGATCTTCTCCTGGAATACAAGATAC
 TCTTGAGGCAGAGGATGGTGCTTTGAGACGGATGAAGCCCTGAGGATCGAATCCTTTC
 ATGCAGAAAAGCTGGTTCCATAATGCGGGAAGGAAGAGACAGAGTTGTAAACCTTG CAGT
 CGACAAGACAGGCAGGATTCTTGCTTGCCATGGAACCTGACTCTGTGCTAGAATTGTTTTG
 TATCCTTTCCAAAAGGAAATTCAGAAGAAAATGGATAAGAAGATGAAGAAAGCTAGAAA
 GAAAGCAAAATTACATTCTAGCAAAGGAGAGGAGGAAGATCCTGAGGTTAATGTTGAAAT
 GAGTCTGCAAGATGAAATCCAGCGGGTGACTAATATAAAAACTTCTGCCAAAATCAAGTC

FIGURE 1 (CONT'D)

CTTTGACTTTGATTCACTTACCTCAACGAGAGAGTTAAAGGCTGTCTTCTGCTGCAGAACAA
CCTGGTGGAATTGTATTCACTGAATCCATCCTTGCCTACTCCTCAGCCTGTGAGGACAAG
CAGAATCACTATTGGGGGTATCGCAGTGATGTGCGGACTTTGTTCATTTCAGCTCAGACAA
TATTGCTGTTCTTTTCAGCTGCAGCTGATTCCATTAAAAATATGGAAACAGGTCTACACTGCA
GTGTATTGCGACAATGACCTGTGAATATGCACTTTGCTCATTCTTTGTACCTGGTGATAG
ACAGGTAGTCATAGGAACAAAGACAGGGAAAGCTGCAGCTTTATGACTTGGCTTCAGGGAA
TCTGCTGGAGACAATAGATGCACATGATGGAGCTTTGTGGTCCATGTCCCTCTCTCCAGA
TCAGCGTGGCTTTGTGACAGGTGGTGCAGATAAAATCTGTCAAATCTGCGGATTTTGTAGTT
AGTGAAAGATGAAAATAGTACCCAAAAGAGACTTTCTGTGAAGCAAACCCGAACCTTTGCA
ACTAGATGAAGATGTTCTGTGTGTGCTAGTTACTCTCCCAATCAAAAAGCTATTGGCTGTGTC
TTTGCTGGACTGTACTGTGAAAATTTTCTACGTTGATACTTTAAAGTTTTTTTCTGTCACT
GTATGGACACAAACTGCCTGTTATATGCATGGACATCTCTCATGATGGAGCACTCATAGC
AACTGGCTCCGCTGATAGGAATGTGAAAATCTGGGGTTTGGACTTTGGGGACTGCCACAA
GTCTCTCTTTGCACATGATGACAGTGTGATGTACCTACAGTTTGTACCCAAAGTCTCACCT
CTTCTTCACTGCCGGAAGAGATCATAAGATTAAACAGTGGGATGCAGACAAATTTGAAACA
CATAAGACTCTGGAGGGTATCACCAGGAAATATGGTGTTTGGCTGTAAGCCCCAGTGG
AGACTATGTTGTATCATCGTCCCATGACAAATCTCTGAGACTTTGGGAGAGAACAAAGGGA
GCCTCTTATTCTTGAGGAAGAAAGGGAGATGGAAAAGAGAAAGCAGAATATGAGGAGAGTGT
GGCCAAAGAAGACCAACCAGCAGTTCCAGGAGAGACTCAAGGTGACAGTTACTTTACTGG
AAAGAAAACATTGAAAACAGTGAAAGCAGCTGAGAGGATTATGGAGGCTATTGAGTTGTA
CCGAGAAGAACTGCAAAAATGAAGGAACACAAAGCCATTTGTAAAGCTGCAGGGAAAGA
GGTTCCACTTCCAGCAACCCCATCCTAATGGCTTATGGCAGTATCTCACCTTCAGCTTA
TGTATTAGAGATTTTTTAAAGGGATCAAGTCGAGTGAGCTGGAAGAATCTCTACTTTGTGCT
GCCTTTCTCTTATGTCCAGACATTCTTAAACTCTTTAACAAGATTCAATTCAGCTGGGCTC
TGATGTTGAACCTTATATGCCGGTGCCTCTTCTTCTCTCTTAGGATTCACTTTGGACAGAT
CACTAGCAATCAAATGCTTGTGCCAGTGATAGAAAAATTAAGGGAACAACTATTTCAAA
AGTCAGCCAAGTCCGGGATGTTATCGGCTTCAATATGGCTGGTCTTGATTATCTCAAGAG
GGAATGCGAGGCAGGAAAGAGTGAAGTTATGTTTTTTGCTGATGCTACTAGCCACTTGGAAGA
GAAGAAGAGGAAGAGGAAAAAGAGGGAGAAGTTGATTCTAACGTTGACTTAGAACTGAAA
TGTGGTATCTTTTTTTTTTTTCAACTTTTCTTTTAAAGGACTCTTAAACTAAGCACAGAA
GAGTTGGCGTCATCTTAAAAATACCAAATAACAGAAGATCGCATTCAGATGATATCAGG
ATGTGGTTTTCCAGCTTTGCTGAGGGAATTCCAACATGAGATTATGGGCTGGCTCCATTT
CTTGGACTTAAATGCATTATTAGTTTTAAAAATCTTCTGTGCTCTCAAAGCTTGAGCCT
TGCAGCTCAAGCTTGTTGTTCCCTTTATATTCTAGCAGGGAATAAATAAATGTTTTTAATT
AGGTATTTGTTTCATTGGAGTTGAAATTAACATTTCAAAGTTTTTTCGATTTTTTTTTATG
GCAGATGATTTGTCATTTATTTATATTAGGTTTTACTGCCTATTGAGACAACAGGTGCA
TAATTGATTGCCCTTTGGCCATAAAAATGCAGTGTCATGGATCTTAGAGCTAAAAAGGAC
TGTA AAAAATTACCCAGAACAGCGTCTCAGACTTAACCTTCTGCAAGTTATGCTCTGTATA
TAAGAAGATTCTAATTGCTAACTGTTTATACTTTTCTGAATAAAATAGTTGTTTCTAATT
AAAAAGTAGCCAAGCTAAGATGCCTGGCTGGGCTTCTGAGGAATTAATACACTCGTGTGT
GT
ATATAGTTGACACTTGAAAAATGCAGGTGGTAGGGGCACTGACCCACCCCTACGCCCCGC
ACAGTCAAAAATCTGCATATAACTTTTGATTCCCAAAGTCTTAAGTACTAGTAGCCTGT
TATTGACTGGGAGCCTGACTGATGTATTATATATATTGTATACTGTATTCTTAAAGTAAG
CTAGAGAAAAGAAAATGTTACTTAGAAAATCATAAGGAAGAGAAAATATATTTACTGTGT
TTATCAATACT

Gene 645. >ENST00000309112 cDNA sequence

ATGGGGCTCACCAAGCAGTACCTACGCTATGTTGCTAGTGCGGCTCTTTGGCGTTATCGGC
AGCCAAAAAGGTAATATTGTCTTTGTGACACTTCGTGGTGAGAAAAGGACGTTATGTGGCA
GTACCAGCTTGTGAACACGTTTTTCATCTGGGACTTAAGGAAAAGGAGAGAAGGGGCTTAA
CAAGAAGTTACTTGCTTATGCCCTCCCGATGGGCTACACTTAGCTGTTGGGTATGAG
GATGGGTCGATCCGAATCTTCAGTCTCCTGAGTGGGGAAGGAAATGTGACCTTCAATGGT
CACAAAGCAGCTATCACTACCTTGAAGTATGATCAGCTAGGAGGCAGACTGGCATCTGGG
TCCAAGGACACAGATATTATTGTATGGGATGTGATCAATGAAAGTGGTCTGTACCGTCTA

FIGURE 1 (CONT'D)

AAGGGGCACAAGGATGCCATCACACAAGCATTGTTTCTACGAGAAAAGAACCTGCTAGTT
 ACTAGTGGGAAAGATACCATGGTGAAATGGTGGGACCTTGATACTCAGCACTGCTTTAAA
 ACAATGGTTGGCCACCGGACTGAGGTATGGGGTTGGTTCTGTTGTGAGAAGAAAAGCGA
 CTCATCACTGGGGCCTCAGACAGTGAAGTGAAGGTATGGGACATAGCTTATCTGCAAGAG
 ATTGAAGACCCGGAAGAACCAGACCCCAAGAAAATCAAAGGATCTTCTCCTGGAATACAA
 GATACTCTTGAGGCAGAGGATGGTGCCTTTGAGACGGATGAAGCCCCTGAGGATGTAATT
 CATTTTCATTTCTTAAGTTTAATTGTGTTGAATAATGGGAAACGAATCCTTTATGACAGA
 AAAGCTGGTTCCATAATGCGGGAAGGAAGAGACAGAGTTGTAAACCTTGCAGTCGACAAG
 ACAGGCAGGATTCTTGCTTGCCATGGAAGTGAAGTCTGTGCTAGAATTGTTTTGTATCCTT
 TCCAAAAGGAAATTGAGAAGAAAATGGATAAGAAGATGAAGAAAGCTAGAAAGAAAGCA
 AAATTACATTCTAGCAAAGGAGAGGAGGAAGATCCTGAGGTTAATGTTGAAATGAGTCTG
 CAAGATGAAATCCAGCGGGTGACTAATATAAAACCTTCTGCCAAAATCAAGTCCTTTGAC
 TTGATTCAATCACCTCACGGAGAGTTAAAGGCTGTCTTCTGCTGCAGAACAACTGGTG
 GAATTGTATTCACTGAATCCATCCTTGCCTACTCCTCAGCCTGTGAGGACAAGCAGAATC
 ACTATTGGGGGTCAATCGCAGTGATGTGCGGACTTTGTCAATCAGCTCAGACAATATTGCT
 GTTCTTTTCACTGCAGCTGATTCCATTAAATATGGAACAGGTCTACACTGCAGTGATT
 CGCAATGACCTGTGAATATGCACTTTGCTCATTCTTTGTACCTGGTGATAGACAGGTA
 GTCATAGGAACAAAGACAGGGAAGCTGCAGCTTTATGACTTGGCTTCAGGGAATCTGCTG
 GAGACAATAGATGCACATGATGGAGCTTTGTGGTCCATGTCCCTCTCTCCAGATCAGCGT
 GGCTTTGTGACAGGTGGTGACATAAATCTGTCAAATCTGGGATTTTGAAGTTAGTAAA
 GATGAAAATAGTACCCAAAAGAGACTTTCTGTGAAGCAAACCCGAACCTTTGCAACTAGAT
 GAAGATGTTCTGTGTGTGAGTACTCTCCCAATCAAAGCTATTGGCTGTGTCTTTGCTG
 GACTGTACTGTGAAAATTTTCTACGTTGATACTTTAAAGGATGGAGCACTCATAGCAACT
 GGCTCCGCTGATAGGAATGTGAAAATCTGGGGTTTGGACTTTGGGGACTGCCACAAGTCT
 CTCTTTGCACATGATGACAGTGTGATGTACCTACAGTTTGTACCAAGTCTCACCTCTTC
 TTCACTGCCGAAAAGATCATAAGATTAAACAGTGGGATGCAGACAAATTTGAACACATA
 CAGACTCTGGAGGGTCAATCACCAGGAAATATGGTGTGTTGGCTGTAAGCCCCAGTGGAGAC
 TATGTTGTATCATCGTCCCATGACAAATCTCTGAGACTTTGGGAGAGAACAAGGGAGCCT
 CTTATTCTTGAGGAAGAAAGGGAGATGGAAAGAGAAGCAGAATATGAGGAGAGTGTGGCC
 AAAGAAGACCAACCAGCAGTTCCAGGAGAGACTCAAGGTGACAGTTACTTTACTGGAAG
 AAACTATTGAAACAGTGAAAGCAGCTGAGAGGATTATGGAGGCTATTGAGTTGTACCGA
 GAAGAACTGCAAAAATGAAGGAACACAAAGCCATTTGTAAAGCTGCAGGGAAAGAGGTT
 CCACTTCCCAGCAACCCCATCCTAATGGCTTATGGCAGTATCTCACCTTCAGCTTATGTA
 TTAGAGATTTTTTAAAGGGATCAAGTCGAGTGAGCTGGAAGAATCTCTACTTGTGCTGCCT
 TTCTCTTATGTCCCAGACATTCTTAAACTCTTTAACGAATTCATTCACTGGGCTCTGAT
 GTTGAACCTTATATGCCGGTGCCTCTTCTTCTCCTTAGGATTCACTTTGGACAGATCACT
 AGCAATCAAATGCTTGTGCCAGTGATAGAAAATTAAGGGAAACAACTATTTCAAAGTC
 AGCCAAGTCCGGGATGTTATCGGCTTCAATATGGCTGGTCTTGATTATCTCAAGAGGGAA
 TGCGAGGCAAAAAGTGAAGTTATGTTTTTGTGCTGATGCTACTAGCCACTTGGAAGAGAAG
 AAGAGGAAGAGGAAAAGAGGGAGAAGTTGATTCTAACGTTGACTTAGAACTGAAATGTG
 GTATCTTTTTTTTTTCACTTTTTCTTTAAAGGACTCCTAAACTAAGCACAGAAGAGT
 TGGCGTCATCTTAAATAACCAATAACAGAAGATCGCATTGCAGATGATATCAGGATGT
 GGTTCAGCTTTGCCTGAGGGAATTCACACATGAGATTATGGGCTGGCTCCATTTCTTG
 GACTTAAATGCATTATTAGTTTAAATCTTTCTGTGCTCTCAAAGCTTGAGCCTTGCA
 GCTCAAGCTTGTTGTTCCCTTTATATTCTAGCAGGGAATAAATAATTGTTTTAATTAGGT
 ATTTGTTTCATTGGAGTTGAAATTAACATTTCAAAGTTTTTCGTATTTTTTATGGCAG
 ATGATTTGTCAATTTATTTATATTAGGTTTTACTGCCTATTGAGACAACCAGGTGCATAAT
 TGATTGCCCTTTGGCCATAAAAATGCAGTGTATGGATCTTAGAGCTAAAAGGACTGTA
 AAAATTACCCAGAACAGCGTCTCAGACTTAACCTTCTGCAAGTTATGTCTGTATATAAG
 AAGATTCTAATTGCTAACTGTTTATACTTTCTGAATAAAATAGTTGTTTCTAATT
 Gene 646. >ENST00000286203 cDNA sequence
 AGAGCAGGAGAGCATCATGAAGGCTCAGCCCCAACATGAGTCTCTGGAGCAGACCACAAA
 CAATGAGATCAAAGATGATGCAGTCACAAAGGCTGATTCTCATGAAAAGAAACCCAAGAA
 GATGATGGTGGAAGCAGATTTAGAGGACATAAAGAAAACACAGCAGCGCAGTCTAATGGA

FIGURE 1 (CONT'D)

CTGGAGTTTTACTGAACATTTTAAACCGAAAGTACTGCTTCAGGTCCTTCAAGAAGCCCA
TAAGCAATATAGGTGTGTTGATTCTTACTACCACACCCAAGACAACTCTTTACTTTTAGT
CTTTCACAATCCAATGAATAGACAACGTTTGCATTGTGAATATTGGAACATTGCTCTCCA
CTCCAATGTTGGATTAGGAATTATTTGGAACCTGTTGCAAAATCTATTCAAGATTGGAT
TACAAAAGAAGAAGCTATATATCAGGAATCTAAAATGAATGAGAAAATCATCAGGACCAG
AGCTGAGCTGGAATTGAAATCTTCTGCTAATGCCAACTTACTTCTGCTAGCAAAATTTT
TTCATTAAAGAATCTAAAAGTAACAAAGGAATCAGCAAAACAGAGATATCAGATCAAGA
AAAAGAAAAAGAGAAGGAAAAGATTCTTTTCATTTTAGAAGGCTCTCTCAAGGCATGGAA
AGAAGAGCAACATCGATTAGCAGAAGAGGAGCGCTTAAGGGAAGAAAAGAAAGCAGAGAA
GAAGGGTAAAGAAGCTGGTAAAAAGAAAGGCAAGGATAACGCAGAGAAAGAGGATAGTAG
GTCTTTGAAGAAAAATCACCTTACAAGGAGAAATCTAAAGAAGAACAAAGTCAAGATCCA
AGAAGTAACAGAAGAGTCCCCCACCAACCAGAACCTAAGATAACTTACCCGTTTCACGG
ATACAATATGGGAAATATACCCACTCAAATCTCAGGGTCAAATTACTACCTGTATCCTTC
TGATGGGGGGCAGATTGAAGTGAAAAGACAATGTTTGAAAAAGGCCAACTTTTATCAA
AGTGAGAGTGGTAAAGGACAACCACAATTTTATGATTCAATTTAAATGACCCTAAGGAAAT
TGTGAAAAAGGAAGAGAAAGGGGATTATTATTTAGAAGAGGAAGAAGAAGGAGATGAGGA
ACAAAGTCTTGAAACGGAAAGTATCAGATGCAAAGAATAAAGCTTTCAGCAAGTTTGATC
TTTTTCTGCCACCTTAGAAAATGGAATCTGCCTCTCGATAAGTTACTATGGATCAAATGG
AATGGCACCAGAAGATAAGGATCCTGATTTAGAAAACAATATTGAATATCCCTTCAGCACT
CACTCCAACAGTGGTTCTGTATAGTGACCGTTCTCAAAGCAAAGCTAAAGGGAAAAT
AAAAGGCAAAGAAAAACCCAAAGAATCCCTTAAAGAAGAAGAACACCCAAAAGAAGAAGA
GAAAAAGGAAGAAGAAGTAGAACACAGAACCTGTTTACAAGAGACTTTGGATGTTCCAC
CTTCAGAGCCTAAATGTGTCTTGCCCCAGTGGGCTCCTGTTGACTTTTATTGGACAAGA
ATCTACAGGTCAATATGTTATAGATGAGGAACCCACCTGGGACATCATGGTCCGTCAGAG
CTACCCCCAGAGGGTGAAGCACTATGAGTTCTATAAAACGGTGATGCCACCCGCAGAGCA
GGAGGCTTCAAGGGTTATCACCAGTCAAGGCACCTGTTGTCAAATATATGTTGGATGGATC
CACACAGATTCTCTTTCAGATGGTGCTGTGAGCAGGAGTCCCAATTCAGGTCTTATTTG
TCCTCCTTCTGAAATGCCAGCAACGCCTCAGAGTGGAGATTTGATGGACTCTATTTCTCA
GCAGAAATCAGAAACGATACCATCTGAGATTACCAACACAAAGAAAGGAAAAAGTCACAA
AAGTCAGTCATCAATGGCCCATAGGGGTGAAATCCATGACCCTCCTCCAGAGGCAGTTCA
AACTGTAACTCCTGTGGAGGTTACATAGGCACCTGGTTTACAACACACCTGAAGGAAA
TCGGATCGGCACCAAAGGATTAGAAAGAATAGCAGACTTGACCCATTGTTATCCTTTCA
GGCCACAGATCCTGTCAATGGAACGGTTATGACAACTCGAGAAGACAAAGTTGTATAGT
TGAAAGGAAAGATGGTACTCGGATAGTGGATCATGCTGATGGTACCAGAATCACAACTT
TTATCAAGTTTATGAAGATCAAATTATTCTGCCAGATGATCAAGAAACAACCGAGGGTCC
TCGGACTGTCAACAGGCAGGTGAAGTGTATGCGGGTAGAAAGCTCACGCTATGCCACTGT
TATCGCCAACTGTGAGGACAGTAGCTGCTGTGCCACCTTTGGAGATGGAACAACTATTAT
TGCAAAGCCACAGGGAAACATACCAGGTGTTACCTCCAAACACAGGCTCTCTTTATATTGA
CAAGGATTGTTTCACTGTGTACTGCCATGAGTCAAGCAGTAATATATACTATCCTTTTCA
AAAGCGTGAGCAGCTGCGAGCTGGCAGGTACATCATGAGGCATACTTCAGAGGTTATCTG
TGAGGTTCTGGATCCTGAGGGAAACACTTTTCAGGTCTGAGGCTGATGGTAGCATATCAAC
TATATTACCTGAAAAAAATTTGGAAGATGATTTAAATGAGAAAACTGAGGGCTATGATAG
TCTGTCTCTATGCACCTTGAAAAGAATCATCAGCAAATCTATGGTGAACATGTCCCCAG
GTTTTTTGTTATGTATGCTGATGGATCAGGAATGGAACCTTCTTCGAGACAGTGACATAGA
AGAATATCTATCTTTGGCATATAAAGAATCAAATACTGTTGTTCTCCAAGAGCCAGTGCA
GGAACAGCCAGGCACCTTAACCATCACAGTCTTTCGCCCTTTCCATGAAGCATCACCATG
GCAAGTAAAAAGGAAGATACAATTGTCCCTCCTAATCTCCGGTCAAGGTCATGGGAAAC
ATTTCCCTCAGTTGAGAAAAAACTCCAGGACCTCCGTTTGGTACTCAGATTTGGAAAGG
CCTTTGCATTGAGTCCAAACAGCTAGTGAGTGCCCGGGTGCCATACTCAAGAGCCCCAG
TGTGCTACAGATGCGCCAATTCAATCAGCATGAGGTCTAAAGAATGAGGTGAAACTGAG
GCTGCAGGTTTCCCTTAAGGATTACATAAACTATATTCTAAAGAAAGAAGATGAGCTGCA
GGAAATGATGGTTAAAGATTCCAGAACTGAGGAGGAGAGAGGCAATGCTGCTGATCTCCT
CAAGCTGGTTATGTCTTTCCCTAAAATGGAGGAACTACAAAAAGTCATGTTACTGAAGT
TGCAGCTCACCTAACTGATTTATTCAAGCAGTCTTTGGCTACGCCTCCAAATGCCACCC

FIGURE 1 (CONT'D)

AGACACATTTGGTAAAGATTTCTTTGAAAAGACATGGAGACACACAGCATCCTCAAAACG
CTGGAAAGAAAAGATAGACAAAACGAGGAAGGAAATTGAGACAACACAGAATTACCTAAT
GGATATTAAGAACCGCATAATACCACCCTTTTAAATCTGAATTGAACCAGTTATATCA
GTCTCAGTATAATCACCTGGACAGTCTTCCAAAAAAGTGCCTTCTTTTCAAAGAAAAA
TGAAGATGCAAACGAAACAGCTGTTCAAGATACATCTGATCTTAATCTAGATTTCAAGCC
ACATAAGGTTTTCAGAACAGAAATCCTCAAGTGTGCCTAGTCTTCCAAAACAGAGATTTTC
TGCAGATAAGAAGGATTTCACTGCTCAGAACCAAAGTAAAATTTAACAAAATCTCCTGA
AGAAGCAGAATCTTATGAGCCCGTGAAAATTCCAACCCAGTCTTGCTGCAGGATGTTGC
GGGACAAACAAGAAAAGAAAAAGTGAAGTTGCCTCATTATTTGCTGAGTTCCAAGCCTAA
GTCTCAACCTCTTGCAAAGGTGCAAGATTCTGTTGGAGGAAAAGTGAACACATCCTCTGT
TGCATCTGCTGCCATTAATAATGCAAAGTCATCCCTTTTGGGTTCCATCTTCTCCCATC
ATCAGTCAAGTTTGGAGTGCTTAAGGAAGGACATACCTATGCCACAGTTGTAAAGCTCAA
GAATGTTGGAGTGGACTTCTGCAGGTTTAAAGTAAAGCAGCCCCACCCAGCACAGGACT
GAAAGTGACTTACAAACCTGGACCTGTGGCAGCTGGTATGCAGACAGAACTGAATATAGA
GTTATTTGCCACAGCTGTTGGAGAGGATGGGGCCAAGGGATCAGCACACATCTCTCAAA
TATCGAGATTATGACAGAGCATGAGGTTCTGTTCTACCTCCCTTAAACAAGTATTTTACC
TGTTTTAAACAAGCAGCAATTATGATAAAGACCAAAGACTTTCCCAGGGAAAAGAAAA
TCCAATGGTCCAGAGAATTCTACAATTTATTCTCCACACTTGAGTCTTCATGTCTCG
TAAAGTTTCTCCACATTAG

Gene 647. >ENST00000331024 cDNA sequence

AAGGTGAAGCCTGGAGTCAATGGATTTGGCCATATTCTCCTGGTCACAAGGGCTGCTCTG
AACTCTGGTAAAGTGGATATTGTGGCCATCAATGACCCCTTCATTGACCTTAACTTCATG
CCCTACATGTTCCAGTATAATTCCACCCATGGCAAATTCATGGCACTCCAAGGCTGAG
AACGGGAAGCTTGTCTCATCAATGGAAATTCATCACCATCTTCTAG

Gene 648. >ENST00000256653 cDNA sequence

AGACCCGTGCGGTAGCAACAGCGGCGGCGGCGGCGGCTGGCCGGACTCAGGTGTTTC
GGACGCTATTGCCCTTCGCGCCAGCCGTGAGTGGGCAGCAGCGGGACTCAGCCGGGCGC
CAGGTTCTGCCAGGCAGCGCCGGGAAGCGCGGCGGCGGCGGAGAACTCCTTCCTGCTACTT
CGCCAGCGCCGCTGCTTCGGCTTCCCAGCGAAGTGGGAGACCTTCCTCCCTGTTTGCAG
ACGTCCGTGGGAGACCTTATTTTTTCCACCGCTAAGGTAAAGAGATTCTGGAATAGAAG
CGTCGAAGGAGATCAAGTGAACCTTCTACAACCTCCTCGGATGTGCGCAGTCTCCCTTTCG
GGGCGGAAGACTACGTTTGGAGCATCTCACTGAGGTGCAGGAATGGAAGAACCACCTTGC
AGCTTTTCTGCAGTGTGGCTTGCTGATCTACCCCTAGGAATGAAGAGGAGGCTTGTAAT
AATCCGATGAAGTACAGATGTTGAAGAGGATATCGCAGGACCTAAACTTGTGATCGTTTG
GGGGAGGTCAACACGTTTCTGAGTGGGAATGGATGGGCGTGAATGACGTGCCCTCTTAA
AAAGCACAACAGTCTTTTAAAGAGGAGCAAAATTGAGTTTTTCCATTTTGGCCAAGATTTT
GAAGACAGTTCAATGTATTCTACATTTGACATAAGATGAGAACTTTCTAAAGTATTCTCT
CCAAGAGCGTAAACGATGACTACCCAGCCCTGCTGCCCCCTCTCTGGACGTAGGATACCA
CCTCTGAACCTGGGGCCGCTTCTTCCACATCACAGGGCTACCTTGAGACTTTCTGAG
AAGTTTATTCTTCTCCTTATTCTTAGTGCCTTCATCACTCTGTGTTTTGGGGCATTCTTT
TTCCTTCCAGACTCTTCAAAACACAAACGCTTTGATTTGGGTTTGAAGATGTGTTAATT
CCACATGTAGATGCCGGTAAAGGGGCTAAAAACCCCGGAGTCTTCTGATCATGGACCC
GATGAACATAGACACAGGGAAGAGGAAGAAGCTCTGAGAAATAAAATTGAGCTGATCAT
GAGAAGGCCTTGGAAGAAGCAAAAGAAAAATTAAAGAAAGTCAAGAGAGGAAATTCGAGCA
GAAATTCAGACAGAGAAAAATAAGGTAGTCCAAGAAATGAAGATAAAAGAGAAACAAGCCA
CTGCCACCACTCCCTATTCCCAACCTTGTAGGAATACGTGGTGGAGACCCAGAAGATAAT
GACATAAGAGAGAAAAGGGAAAAAATTAAAGAGATGATGAAACATGCTTGGGATAACTAT
AGGACATATGGGTGGGGACATAATGAACTCAGACCTATTGCAAGGAAAGGACACTCCCT
AACATATTTGGAAGTTCACAAATGGGTGCTACCATAGTAGATGCTTTGGATACCCTTTAT
ATCATGGGACTTCATGATGAATTCCTAGATGGGCAAAGATGGATTGAAGACAACCTTGAT
TTCAGTGTGAATTCAGAGGTGTCTGTGTTTGAAGTCAACATTCGATTTATTGGAGGCCA
CTTGACGATATTACCTATCAGGAGAGGAGATATTCAAGATTAAAGCAGTGCAATTGGCT
GAGAACTCCTTCTGCCTTTAACACACCTACTGGGATTCTTGGGCAATGGTGAATTTG
AAAAGTGGAGTAGGGCGAAACTGGGGCTGGGCATCTGCAGGTAGCAGCATTCTGGCTGAA

FIGURE 1 (CONT'D)

TTTGGTACACTACATATGGAGTT CATCCACCTCAGCTACTTGACAGGGGACCTGACTTAC
 TACAAAAAGGTTATGCACATT CGGAACTACTT CAGAAAATGGATCGTCCAAATGGTCTT
 TATCCAAATTATTTGAACCCAGAACAGGGCGCTGGGGTCAGTATCATA CATCTGTCGGT
 GGCCTGGGAGACAGTTTTTATGAATACTTACTGAAAGCATGGTTGATGT CAGATAAAACA
 GACCATGAGGCAAGAAAGATGTATGATGATGCTATTGAGGCTATAGAAAAACATCTTATT
 AAGAAGTCTCGTGGAGGTCTTACCTTTATTGGAGAATGGAAGAATGGGCACTTGGAAAAA
 AAGATGGGGCATTGCGCTGCTTTGCTGGGGGAATGTTTGCACTAGGAGCAGATGGTTCC
 AGAGCAGATAAAGCTGGTCATTATTTAGAGCTAGGGGCAGAAATTGCACGTACTTGT CAT
 GAGTCATATGACAGAACTGCATTAAAGCTAGGTCCTGAATCATTCAAGTTTGATGGTGCA
 GTGGAGGCTGTGGCTGTCCGGCAGGCTGAAAAGTATTATATCCTCCGTCCAGAAGTAATT
 GAAACCTATTGGTACCTATGGCGATTCACTCACGATCCAAGATACAGGCAGTGGGGCTGG
 GAAGCAGCACTGGCCATTGAAAAGTATTGCCGAGTTAATGGTGGGTTTTCTGGAGTCAAA
 GATGTATATTCTCTACTCTACACATGATGATGTACAGCAGAGCTTTTTTCTTGCTGAA
 ACATTAAAATATTTGTATCTGCTGTTCTCCGGTGATGACCTTTTACCTTTAGACCACTGG
 GTGTTTAATACAGAGGCTCACCTCTGCCTGTGTTACATTTAGCCAACACCACACTTTCA
 GGTAATCCTGCTGTTTCGATGAAAGCAGTTCAGAAGGACCATTCTCACCTGTGTTTTGTT
 TACATGGACCACTACAGAAATTAGTTTGAAGGGGCGGCTTTTGAAAACCTGGACCTCTAT
 GTCAACATGACAGGGTGAAACTATTCCCCCTAAGACTGTTCAACTTGTAGATACATCAAC
 TTTGAAATTATTCATTTTATACCTGACCAAAACATGTTCTGATATGTGTAGGACAGAGA
 CCTGGATGTGCTTTGATCGTTAATGAGGTGGTCACATGAGAAATGATACCTGTTACTACT
 GTATTGTTTTTAGAGTCCTGAAGTCTGGAGGCTAGACTTCCTGAAAGCAAGTCAAGAATA
 TAGAGCACCTTG CAGGAGTTCAAGATGGCCTTTGGAACCAATTATGTATTTGTTTCTCC
 TACAGTGGAGCAGCATTCAAATCAAATATTTACATATTGCTTATCACTTTTTCTCCATTT
 TAATAATGGAATGAACTAAAATAAAACAAGAACAAAAGAATAGTATAATTATATCAGTAAC
 AAGAAGACTCAAAAAAGAAAACAGGAGTACCTATCCCTATCTGAATTTTCAAGTTCCCAT
 TGGATGACCAGACTGGCAACCATTTCAAATCCCAGTCTATTTTCAATTGAAATTTCTTGTT
 AAGTTTAATTTTCTCTGGGGGCATGATCTCACAAGAATACTCAAGTCTTTTTCTTCTTA
 TGGAATCATCGAACTGCTATTTATCATAATCACCACCTTATGAGCCTGGGTTTGGGATTT
 TGTGCATGTAGTT CAGTCTAGTGTTGGTAGCATGACAGAAAGTGGGGAAAATGCCGCAGT
 TTGTTGCCTTGAAACCTAAGAGCAATCCTTGTTTTGTTGCTACATTATTTTTCCAGACC
 AACACATCTACCAAGTAAATTTTATTCACTTTAATTTTATAATAAAGTTAGTAGAGTCAC
 TCAACTTACAACTTTATTTATGTGGCTTGGCAAAAATCACTATAAGGCAGCTCTAAATTT
 GCCTTGATAAGCTAAATAAATTAATTTTATAAATTAAGCAGAACAAACAGTGAAAC
 TTTCTAAAATATTTCTATCTGGAATAGGGACAGGGGATCTTTTATTTATAATCTCATCAGA
 TGAGTGAGTTGTTTACAGATATTTTATGTTTTTTTAAATTTTCTCCAAGAATATTTATAGA
 ATTCCAAAGAATCAGAATAGTTTCAAATAAATTTTCAAGTATAAAGAGTGTTGTAATTA
 ATCATATTACACTAAAATTGGGATACATCTAAGGAACCTTATCTTACTATCAGTAGGTTT
 TGCATTGATATTTCTTTTTAAATAAACTACTAGTTCTTTATATTTTGA CAAAAGAACTT
 AAATTTTATCAGGAACTGTAAGATAAATATCTAGTGCTTATAAATTTTCTGTCTTAAAT
 TTATGTGACAGTGCAAGATACTTTTGCTCTTTTCATTTAATATAGGCATCTTCCATTGAC
 ATTAATAAACTTAGAAACAGTATAATTAGTATAACATTTACTCTGAATTTGAAGATTTTC
 CTGAAACAAAGTTTGTACAAGAAGCCACCTTGGAATTCTGAAGGCTTATTTTCTTGTTT
 GATAAGCTTTTCTTTTAACTTAGGTTTTAAGTTGGGGAAAGACTTAATTAACATAATATA
 GTATTTTCTAAGGTTGATCATCTTATACCACGAATCGTTAATTTTGACAGTTCTACTGAT
 CCGTAAATGATAACCACTGCAAATTTTTTTCAGTATAAAATTTTTCACTGCAAAAAAATTT
 CAGTAGAAAATAAGGATGCAGGGCCAGTTACAATAGTCCTTAAGAGAGTTAAATTATAGC
 ACATGTTTTGACATTGTAATATCTTTTACTACTTGAACATTTAAATTTCTAAATGAGAAA
 GGTATATATATTACTGTAAGTGTAGAAGGGAAAAGGGAAAGTATTTGGTTCTAAAAAATG
 TTAGCCTTCCTCGTAAAAGTAGCACAAGCCCACTTATGAATCACTGAGAAAAAGTGAAAA
 ACTTGAGTTGGCAAAGATGCAGAGCAGCAGTGCAGATGGCAATGAACTCTCTGAATTCTC
 TTTTACCTTATTTAGAAGAATGCAGAGTAAAGGGACCTTCTTGTTTCTGCAGGAACCTTCT
 CAAGGGATGAGGAGACAGAACCCCTACTTCCAAGTGCTCTATTTGTATTACCCAGATGAC
 TGAAGCTTAAGAGAAGGCAGGGAAGTATACAAGCAGAGCCAGTTCTGGTACAAACAAAGA
 ATTTGACAGGGACAATGGAAGGGTCTTCTTCACTACTCTTACCTTCTATGTGATGGAAA

FIGURE 1 (CONT'D)

GACTAGAGCTTATAAAAGTACTTCCATTTTTTTTATTCTCCTGAATACCAAAGGCAATTAA
 AGTCAGCTACAAATGACTTGCCAGTGT CATGTTTTATTTTGTATAGATTTTAAATTA
 TTTCTTCAAGATCAATTCTTATCCCATATAATGCTTAGCTTCCAAGAATATTCTTTACT
 TTCTTCTGTCTTTTACAGCTCTTTGCATTTTGTAGACCTTAATACTCAGGTAAATATTC
 ATTGCATTTATAAGATCTTCTGCAAAAAGCCCAGAAATGGTCCTTTTCAGGTGCCTCTTC
 AAAGAGCTGACACCTTACCTTGTGCCTTTGGCACAATGTGCAGAATAGATACATCAGTT
 GGTGCATAATCGAAAAAATAGGAATTTTGAACACTGTTCTTCCTTCTACATTTATTTCT
 CTTCATTTTAGAATCACACTTTTTATGTTAAACCAGATTATTATTATTATTATTATTCAA
 CCAGTATTAAGTTGTTAAAACCAAGGGAATGGGGCCCTAACCAAAAAGAAGTCTCAACTC
 AGAAAAATAAGTCCCAGT CAGGTGGTCTTACTTTCTGTGGGTGTCACATTTTGTATC
 TCTCTAACATCAGCGTATTCTGACTTTAAGCAGGTGTTTATATGTAAAATAAAACCTGG
 GTATCGAAGGGAAATGCATTCTTTTTATGGAGTATTGACCCTGATCCTCTATGATGTCAT
 ATAGAGCAACTCAGGGCTATACTTGCTAGATTTTAACCAAGCAGTTTGAAATATTAATCA
 TCATCCTCTCATCTTCTCCACTCTCCATTGCCAAAGTCTTTGTCAAACTCCAAATTTGT
 TGATAAAAGATTGTGTTTGCATTCTCATTTATAATGCAGTTTCTCCTTAAGCCTGGAGT
 TTTTTGAATGAGTGCATGAGTAAATGAGAGAATGTGTGAACGAACATTTATGAAGTATCT
 AACATGTGCCAAGCATTGTGCCTGGCACTTTCAATCATTAGAATGTTTTATGTGATTCCA
 CAGCATTTTCTGTATGAGAGTAGCTCACAACATTTTAAATGTTTCCAATATGAATCGTGT
 TACAAAATTCTTAATTTTATATTTTATATAAAATTAAGAGGAAAAAGAAAGGTTTATAA
 TATATTTTAAACAATGTGTTACTGTATAATACAACTATAATTGTAGTTAATAACTAAAA
 CCTCTTGAAAATGTCAAAGAAATACTTGATTTCTGATGCAACTTTGACTAAAATATTTAC
 TTT

Gene 649. >ENST00000334368 cDNA sequence

ATGGGGAAAAACAGAA CAGAAAACTGGAACTCTAAAACGCAGAGCGCCTCTCCTCCT
 CCAAAGGAACGCAGTTCTCACCAGCAACAGAACAAAGCTGGATGGAGAATGATTTTGAC
 GAGCTGAGTGAAGAAGGCTTCAGACGATCAAATTACTCTGAGCTACGGGAGGACATTCAA
 ACCAAAGGCAAAGAAGTTGAAAACCTTTGAAAAAATTTAGAAGAATGTATAACTAGAATA
 ACCAATACAGAGAAGTGCTTAAAGGAGCTGATGGAGCTGAAAACCAAGGCTCGAGAACTA
 CGTGAAGAATGCAGAAGCCTCAGGAGCCGATGCGATCAACTGGAAGAAAGGTATCAGCA
 ATGGAAGATGAAATGAATGAAGTGAAGCGAGAAGGGAAGTTTAGAGAAAAAGAATAAAA
 AGAAATGAGCAAAGCCTCCAAGAAATATGGGACTATGTGAAAAGACCAAATCTACGTCTG
 ATTGGTGTACCTGAAAGTGATGTGGAGAATGGAACCAAGTTGGAACCACTCTGCAGGAT
 ATTATCCAGGAGAACTTCCCAATCTAGCAAGGCAGGCCAACGTTTCAATTTCAGGAAATA
 CAGAGAACGCCACAAAGATACTCCTCGAGAAGAGCAACTCCAAGACACATAATTGTCAGA
 TTCACCAAAGTTGAAATGAAGGAAAAAATGTTAAGGGCAGCCAGAGAGAAAGGTCGGGTT
 ACCCTCAAAGGAAAGCCCATCAGACTAACAGCGGATCTCTCGGCAGAAACCCTACAAGCC
 AGAAGAGAGTGGGGGCCAATATTCAACATTCTTAAAGAAAAGAATTTTCAACCCAGAATT
 TCATATCCAGCCAAACTAAGCTTCATAAGTGAAGGAGAAATAAAATACTTTATAGACAAG
 CAAATGCTGAGAGATTTTGTCAACACCAGGCCTGCCCTAAAAGAGCTCCTGAAGGAAGCG
 CTAAACATGGAAGGAACAACCGGTACCAGCCGCTGCAAAATCATGCCAAAATGTAA

Gene 650. >ENST00000207157 cDNA sequence

TCTGAGCAGAGCACTGGTTTCAGATTCTGAGGTCTCACTGAGCGGACTTCCTGCTCCTTC
 AGTACTCACACTGACCTGGCCTCTGGTGTGTCAGGCCCTGTGCCTGCTGCCATGTCTTCC
 ATGGAGGAGATT CAGGTGGAGCTGCAATGTGCTGACCTCTGGAAGCGGTTCCATGATATT
 GGAAC TGAAATGATCATCACCAAAGCAGGCAGGAGGATGTTTCTGCCATGAGAGTGAAA
 ATCACTGGCCTAGATCCACATCAGCAGTACTACATAGCAATGGACATTGTGCCTGTGGAC
 AATAAAAGATACAGATATGTGTATCATAGCTCCAAGTGGATGGTGGCTGGCAATGCTGAT
 TCCCCCTGTGCCCCCAAGAGTTTATATACACCCTGATTCTCTAGCTTCTGGAGACACCTGG
 ATGAGACAGGTGGTCAGTTTTGACAACTCAAGCTTACCAACAATGAGTTGGATGATCAA
 GGACATATCATTCTGCACTCTATGCACAAATACCAGCCTCGAGTTTCAATGTGATTGCAAA
 GACTTCAGCAGTGACCTTTCAACCACTAAGCCTGTTCTGTTGGGGATGGGGTGAAAACG
 TTCAACTTTTCTGAGACTGTGTTTACCACAGTTACGGCCTATCAGAATCAGCAGATTACC
 AGATTAAAAATTGACCGAAACCTTTTGTCTAAAGGATTGAGAGATTCTGGGAGAAACAGA
 ACTGGACTTGAAGCCATCATGGAGACATATGCATTCTGGAGACCTCCTGTGCGCACTC

FIGURE 1 (CONT'D)

ACCTTCGAAGACTTCACCACCATGCAGAAGCAGCAAGGAGGCAGCACAGGCACTTCCCCA
 ACCACCTCCAGCACTGGGACACCATCCCCTTCGGCTTCTTCTCATCTTTTATCTCCATCC
 TGTTCTCCTCCAACCTTTTCATCTGGCCCCCAACACTTTCAATGTGGGCTGCCGAGAAAGC
 CAGCTGTGTAATCTAAACCTCTCTGATTATCCACCATGTGCCCCGAAGCAACATGGCTGCC
 TTGCAGAGCTACCCAGGGCTGAGTGACAGTGGCTACAACAGGCTTCAGAGTGGCACCCT
 TCAGCCACTCAGCCCTCTGAAACCTTCATGCCTCAGAGGACTCCATCCCTGATCTCAGGA
 ATACCAACTCCTCCCTCGTTGCCTGGCAACAGCAAGATGGAAGCCTACGGTGGCCAGCTG
 GGGTCCTTTCCCACTTCCAGTTTCAGTATGTCTATGCAGGCAGGCAATGCTGCCTCCAGC
 TCCTCATCACCACACATGTTTCGGGGGCAGCCACATGCAGCAGAGCTCCTACAATGCCTTC
 TCCCTTCACAACCTTACAACCTGTATGGATACAATTTCCCCACTTCCCCTAGGCTAGCT
 GCAAGCCCGGAAAACTGAGCGCCTCTCAAAGCACTTTACTCTGTTCTTCTCCTTCCAAC
 GGGGCCTTTGGAGAGAGGCAGTACCTGCCGTGAGGATGGAGCACAGCATGCACATGATT
 AGCCCTTCACCCAATAACCAACAGGCAACCAACACTTGTGATGGCCGGCAGTATGGGGCA
 GTTCAGGCTCCTCCTCCAGATGTCCGTGCACATGGTTTAAAGGCCAGTCCAAACACCA
 CGGAGCATTGGCAATCAAGGCCCCAGAGTCTCCGTGGTCAGATCCTCCTCTTTGGGAGT
 CCAGTGTCTTTGAAAAACAGGAACCGTGTTTTTTTTTTTTTTTTTTTTCTGGCCGAAGAC
 ATATACCCAAGAAACAAGAGATACCTTTAAGCCAGTGAAGGATACTTGCGATAGAATCATC
 CGCAACTCAGTGGCCATTCTTCTGCCTTCCAGACCTTAGTTTTATAAAGCATTGTCTGT
 TCCAGAGTGGCCTTTGAAGAGACTGAATAATCACTTCGTCATAATGTTAAGGGAGATGCT
 AGTGTGTGGCAGCCATGAAAAGTTACACATACACACCCACATACAGACAGACCTACCTAT
 ACATACGTGCACACACACATACATATTACATACACAATTCATACACATGCAATCATACATG
 CACACTGACTCTGAACTGGGTGAACTCTGTGGAGGGAGGCCAGAAATGGGTGCTTTACC
 AAGAATTTGTCTGTGTACAACCTCTAGATGGAGTGGGCCAGCAGTAGCTGCCAGTCTTTCT
 CCCCTGCAGCTTCTCTGCTTCTGGAATGAACCATGTATCCTGGAGACCCTCCCAATGGA
 TGAGAGTGGAAAGACATCAGTACAACCTGGACTTGGCTTCCGGAAGAAAGATTGCTTTTGAA
 CTTTGGCTCTCTTCACTTGTATGCTATCATTGATATTCCCAGTGGTGCCCGTGGAAAGAG
 GGAGAAAGAGAAGCTGAACAGGAGAAAGACAAACAGAAAGAATAGAGAACAGGAACGAGG
 TGGAGAGCAAGACTGACAGAGAAAGTGTGAGCAATGATGAGAATTTTAATTACCAAGGA
 GACGTGTTTTTGGTTTTGTCCCCCAAACCCCGCCCGCCCCACTACAGGTTATGGAAAGAA
 TCATGGCATTACTGAGGAGTAAACCTCTCTGGCACACTGAGCATGGTCAGGGCATTGGTC
 AGAGGGACAGAGCAAGGAATGCATCCTGAGCCCAAGCTTTGACCACTGTGATCCAGAAG
 AGAGGTGCACTACGTGGGAAGTGTGATTCCACAGCATGCAGCCTGGTAGGGGAAGGAAA
 ATAAAAGGGTGTGAAGAAGGAATAGTTTTATAATCTCGGAAGATGATACCAAGAGCAGAG
 GCAACAAATAGAGGCCTGGCCTCAGGTGCCGGATCCAGACACCTGACCTAGAATGCCTG
 CCCGCTATCCCTGTGGCAGGAAATATCCCCTCATGTCCAGGGAAATTGCAGATGGGTCTT
 CTATACCCTTCTACCTGCCCTTAGATCTCCATTTTTATCAAATAGTACATTGCATTTTGA
 AGTTTTGGGTTTTGTCTTTCATCTTTCCCTTTCCCTTCAAATCTTTAATGGTAAGAAAG
 CAAGTGAAGCTTGGTGCAAGCTAAAATTTTTAAATGGTGTGGAAATGCAATAATACCAA
 GTAAAATAATACAGATATTATTAAAGTTTCTGGTTTTGAGGTGTTGTAGATAAATGTATT
 TATGTGCCTAGTGGGAATCCAATATTATGAATATGAAAAAGGGGGCAATAAAAGGGTAT
 GTAAAATATGTATGAAGAAAAGGTGTACAAAATTTGCCCTTATGCACGGAACTCTGTTT
 CTAAGTGCCAAGCACAGAAAGCCGCTAAATAAAATCTTTGCAATTGT

Gene 651. >ENST00000325945 cDNA sequence

GGTGTGTTTTCTAACACCTCCGGCAGTGAGCCAGGCTTTGAGTGGCTGCGTCTAAACACT
 TCTTTCCCTGAGGACTGGAAGACATTAGAATAAGCTCCAGACAATTCAAACATTGAGATT
 CCTGGGAACCTACCAGATAGTAGCATCAGTTTACCAAGAAATGAAGCTGGTGAGGCAGTGA
 AAATCCAGGGCCTAGAAAGCTGGGAATGCCATGACGTGGGCACATTGAAAGACAAGAGGC
 AGGCATGATCAGCCTTGAACCTTTAGGAAGATCCCAGGAAGCTGATGGAAGACAAGATGTG
 GAGTGAATGTGAAGGTCCAGAAATGTCTTGGTGTGTTTGACAGACTTTCAGGCCCATGC
 GCGAGAGCAGCTGTCTAAGTCAACTCGGGATTTTTATTGAAGGTGGAGCAGATGACAGCAT
 CACGCGGGATGACAACATTGCAGCATTTAAAGAAATTTCGCCTCCGTCCGCGGTACCTGAG
 AGATGTGTCTGAGGTGGACACCAGAACCAATCCAAGGGGAGGAGATCAGTGCCCCCTAT
 TTGTATCGCACCCACAGGGTTCCACTGCCTTGTCTGGCCTGATGGGGAAATGAGCACAGC
 AAGAGCTGCCCAAGCGGCTGGTATCTGCTACATCACCAGCACATTTGCCAGCTGTAGCCT

FIGURE 1 (CONT'D)

TGAAGACATTGT CATTGCAGCTCCCGAAGGCCTCCGATGGTTCCAACCTCTATGTGCATCC
AGACCTGCAGCTGAACAAACAGTTGATCCAGAGGGTAGAATCCCTAGGTTTCAAAGCTTT
GGTAATAACTTTGGATACACCTGTATGTGGCAACAGGCGACATGACATTGAAAACAGTT
GAGGAGGAACCTTAACACTAACAGATCTTCAATCACCTAAAAAGGGAAATGCAATACCTTA
TTTCCAGATGACTCCTATCAGCACTTCTCTCTGCTGGAATGATCTCTCCTGGTTTCAGAG
CATAACTCGATTGCCCATCATCCTGAAAGGGATTTTGACAAAAGAGGATGCAGAGTTAGC
TGTGAAGCACAAATGTCCAGGGTATCATTGTTTCCAACCATGGTGGGAGGCAGCTTGATGA
GGTTCTTGCTTCAATTGATGCTTTGACAGAAGTGGTGGCTGCTGTAAAGGGGAAAATTGA
AGTCTACCTGGATGGCGGGGTCCGAACTGGCAATGATGTGCTGAAGGCTCTGGCCCTTGG
AGCTAAGTGCATTTTTCTTGGGAGACCAATCCTATGGGGCCTTGCTGCAAGGGTGAACA
TGGTGTAAAGGAAGTTTTGAACATTTTAACAAATGAGTTCCACACTTCCATGGCCCTTAC
AGGCTGCCGGTCGGTCGCTGAGATCAATCGAAACTTGGTCCAGTTTTCCAGGCTGTAA

Gene 652. >ENST00000333224 cDNA sequence

ATGGAGGTTGGCAAGAAACAAGCGCCTTATGAAAGGCGGCAAAAAGGGAGCCAAGAAGAAA
GTGGTCGATCCATTTTGAAGAAGGATTGGTATGATGTGAAAGCACTTGCTATGTTCAAT
ATAAGAAATACTGGAAAGATGCTAGTCACCAGGACCCAAGGAATCAAATTGCATCTGAT
GGCTTTGAGGGTTGTGTGCTTGAAGTGAGTCTTACTGATTTGCAGAATGATGAAGTTGCA
TTTAGAAAATTCAAGCTGATTACTGAAGATGTTCAAAAAGTGCCTAACTTCCATGGCATG
GATCTTACCCATGACAAAATGTGTTCCATGATCAAAAATGGCAGACAATGATTCTTCAT
CTGTTCTGTGTTGGTTTTACTAAAAAATGCAACAATCAGGTACGGAAGACCTCTTATGCT
CAGCACCAACAGGTCCTCCAATCTGGAAGAAGATGATGGAAATCATGACCTGA

Gene 653. >ENST00000256585 cDNA sequence

AAGATATAAAAGCTCCAGAAACGTTGACTGGGACCACTGGAGACACTGAAGAAGGCAGGG
GCCCTTAGAGTCTTGGTTGCCAAACAGATTTGCAGATCAAGGAGAACCCAGGAGTTTCAA
AGAAGCGCTAGTAAGGTCTCTGAGATCCTTGCACTAGCTACATCCTCAGGGTAGGAGGAA
GATGGCTTCCAGAAGCATGCGGCTGCTCCTATTGCTGAGCTGCCTGGCCAAAACAGGAGT
CCTGGGTGATATCATCATGAGACCCAGCTGTGCTCCTGGATGGTTTTTACCACAAGTCCAA
TTGCTATGGTTACTTCAGGAAGCTGAGGAACTGGTCTGATGCCGAGCTCGAGTGTGAGTC
TTACGGAAACGGAGCCACCTGGCATCTATCCTGAGTTTAAAGGAAGCCAGCACCATAGC
AGAGTACATAAGTGGCTATCAGAGAAGCCAGCCGATATGGATTGGCCTGCACGACCCACA
GAAGAGGCAGCAGTGGCAGTGGATTGATGGGGCCATGTATCTGTACAGATCCTGGTCTGG
CAAGTCCATGGGTGGGAACAAGCACTGTGCTGAGATGAGCTCCAATAACAACCTTTTTAAC
TTGGAGCAGCAACGAATGCAACAAGCGCCAACACTTCCTGTGCAAGTACCGACCATAGAG
CAAGAATCAAGATTCTGCTAACTCCTGCACAGCCCCGTCTCTTCTTTCTGCTAGCCTG
GCTAAATCTGCTCATTATTTTCAAGGGGAAACCTAGCAAACTAAGAGTGATAAGGGCCCT
ACTACACTGGCTTTTTTAGGCTTAGAGACAGAACTTTAGCATTGGCCAGTAGTGGCTT
CTAGCTCTAAATGTTTGGCCCGCCATCCCTTTCCACAGTATCCTTCTTCCCTCCTCCCCT
GTCTCTGGCTGTCTCGAGCAGTCTAGAAGAGTGATCTCCAGCCTATGAAACAGCTGGGT
CTTTGGCCATAAGAAGTAAAGATTTGAAGACAGAAGGAAGAACTCAGGAGTAAGCTTCT
AGACCCCTTCAGCTTCTACACCCCTTCTGCCCTCTCTCCATTGCCTGCACCCCACCCAGC
CACTCAACTCCTGCTTGTTTTTCTTTGGCCATGGGAAGGTTTACCAGTAGAATCCTTGC
TAGGTTGATGTGGGCCATACATTCTTTAATAAACCATTGTGTAC

Gene 654. >ENST00000324032 cDNA sequence

ATAAGACTTTTATGGATGGATTGTTTTTCTCAAATAATATTATCGCTTTGTGACTAAAGT
AAAGATTATTAATTCCTGAGGCAAGAAGATATAAAAGCTCCAGAAACGTTGACTGGGACC
ACTGGAGACACTGAAGAAGGCAGGGGCCCTTAGAGTCTTGGTTGCCAAACAGAATGCCCA
TATCCGTCTTACCTGTGAGGAAGCTTGCCCTTGGGCGCCCTCTGCTGGCCCTCCTGAAGCT
AACAGGGGCGAGTGCTCGGTGGTTTACAAATTGCCTCCATGCAGACTATGAAACTGTTCA
GCCTGCTATAGTTAGATCTCTGGCACTGGCCCAGGAGGTCTTGCAAGATTTGCAGATCAAG
GAGAACCAGGAGTTTCAAAGAAGCGCTAGTAAGGTCTCTGAGATCCTTGCACTAGCTAC
ATCCTCAGGGTAGGAGGAAGATGGCTTCCAGAAGCATGCGGCTGCTCCTATTGCTGAGCT
GCCTGGCCAAAACAGGAGTCTGGGTGATATCATCATGAGACCCAGCTGTGCTCCTGGAT
GGTTTTTACCACAAGTCCAATTGCTATGGTTACTTCAGGAAGCTGAGGAACTGGTCTGATG
CCGAGCTCGAGTGTGAGTCTTACGGAAACGGAGCCACCTGGCATCTATCCTGAGTTTAA

FIGURE 1 (CONT'D)

AGGAAGCCAGCACCATAGCAGAGTACATAAGTGGCTATCAGAGAAGCCAGCCGATATGGA
TTGGCCTGCACGACCCACAGAAGCCACTCAACTCCTGCTTGTTTTTCCTTTGGCCA

Gene 655. >ENST00000263167 cDNA sequence

GAGGAGGAGGAGGAGATGACTGGGGAGCGGGAGCTGGAGAATACTGCCAGTTACTCTAG
CGCGCCAGGCCGAACCGCAGCTTCTTGGCTTAGGTACTTCTACTCACAGCGGCCGATTCC
GAGGCCAACTCCAGCAATGGCTTTTGCAAATCTGCGGAAAGTGCTCATCATGACAGCCT
GGACCCTTGCTGCCGAAGATCTTGCAAGATGGAGGGCTGCAGGTGGTGGAAAAGCAGAA
CCTTAGCAAAGAGGAGCTGATAGCGGAGCTGCAGGACTGTGAAGGCCTTATTGTTTCGCTC
TGCCACCAAGGTGACCGCTGATGTCAACAAGCAGCTGAGAACTCCAGGTGGTGGGCAG
GGCTGGCAGAGGTGTGGACAATGTGGATCTGGAGGCCGCAACAAGGAAGGGCATCTTGGT
TATGAACACCCCCAATGGGAACAGCCTCAGTGCCGCAGAACTCACTTGTTGAATGATCAT
GTGCCTGGCCAGGCAGATTCCCAGGCGACGGCTTCGATGAAGGACGGCAAATGGGAGCG
GAAGAAGTTTCATGGGAACAGAGCTGAATGGAAAGACCCTGGGAATTCTTGGCCTGGGCAG
GATTGGGAGAGAGGTAGCTACCCGGATGCAGTCCTTTGGGATGAAGACTATAGGGTATGA
CCCCATCATTTCCCGAGAGGTCTCGGCCTCCTTTGGTGTTCAGCAGCTGCCCTGGAGGA
GATCTGGCCTCTCTGTGATTTTCATCACTGTGCACACTCCTCTCCTGCCCTCCACGACAGG
CTTGCTGAATGACAACACCTTTGCCCAGTGCAAGAAGGGGGTGCGTGTGGTGAAGTGTGC
CCGTGGAGGGGATCGTGGACGAAGGCGCCCTGCTCCGGGCCCTGCAGTCTGGCCAGTGTGC
CGGGGCTGCACTGGACGTGTTTACGGAAGAGCCGCCACGGGACCGGGCCTTGGTGGACCA
TGAGAATGTCATCAGCTGTCCCCACCTGGGTGCCAGCACCAAGGAGGCTCAGAGCCGCTG
TGGGGAGGAAATTGCTGTTTCAAGTTCGTGGACATGGTGAAGGGGAAATCTCTCACGGGGGT
TGTGAATGCCCAGGCCCTTACCAGTGCCTTCTCTCCACACCAAGCCTTGGATTGGTCT
GGCAGAAGCTCTGGGGACACTGATGCGAGCCTGGGCTGGGTCCCCCAAAGGGACCATCCA
GGTGATAACACAGGGAAACATCCCTGAAGAATGCTGGGAACTGCCTAAGCCCCGCAGTCAT
TGTGGCCTCCTGAAAGAGGCTTCCAAGCAGGCGGATGTGAAGTGGTGAACGCTAAGCT
GCTGGTGAAGAGGCTGGCCTCAATGTCAACACCTCCACAGCCCTGCTGCACCAGGGGA
GCAAGGCTTCGGGGAATGCCTCCTGGCCGTGGCCCTGGCAGGCGCCCTTACCAGGCTGT
GGGCTTGGTCCAAGGCACTACGCCTGTACTGCAGGGGCTCAATGGAGCTGTCTTCAGGCC
AGAAGTGCCTCTCCGCAGGGACCTGCCCCCTGCTCCTATTCCGGACTCAGACCTCTGACCC
TGCAATGCTGCCTACCATGATTGGCCTCCTGGCAGAGGCAGGCGTGCGGCTGCTGTCTTA
CCAGACTTCACTGGTGTGAGATGGGGAGACCTGGCACGTGATGGGCATCTCCTCCTTGCT
GCCCAGCCTGGAAGCGTGAAGCAGCATGTGACTGAAGCCTTCCAGTTCACCTTCTAACC
TTGGAGCTCACTGGTCCCTGCCTCTGGGGCTTTTCTGAAGAAACCCACCCACTGTGATCA
ATAGGGAGAGAAAATCCACATTCTTGGGCTGAACGCGGGCCTCTGACACTGCTTACACTG
CACTCTGACCCTGTAGTACAGCAATAACCGTCTAATAAAGAGCCTACCCCC

Gene 656. >ENST00000256633 cDNA sequence

GGTTTCTGCTGGGTTTCTGAACTGCTGGGTTTCTGCTTGCTCCTCTGGAGATGCAGCGTC
TGTTGACTCCAGTGAAGCGCATTCTGCAACTGACAAGAGCGGTGCAGGAAACCTCCCTCA
CACCTGCTCGCCTGCTCCAGTAGCCACCAAAGGTTTTCTACAGCCTCTGCTGTCCCCC
TGGCCAAAACAGATACTTGGCCAAAGGACGTGGGCATCCTGGCCCTGGAGGTCTACTTCC
CAGCCCAATATGTGGACCAAAGTACCTGGAGAAGTATAACAATGTGGAAGCAGGAAAGT
ATACAGTGGGCTTGGGCCAGACCCGTATGGGCTTCTGCTCAGTCCAAGAGGACATCAACT
CCCTGTGCCTGACGGTGGTGCAACGGCTGATGGAGCGCATACAGCTCCCATGGGACTCTG
TGGGCAGGCTGGAAGTAGGCACTGAGACCATCATTGACAAGTCCAAAGCTGTCAAAACAG
TGCTCATGGAAGCTTTCAGGATTTCAGGCAATACTGATATTGAGGGCATAGATACCA
ATGCCTGCTACGGTGGTACTGCCTCCCTCTTCAATGCTGCCAACTGGATGGAGTCCAGTT
CCTGGGATGGTCTGTTATGCCATGGTGGTCTGTGGAGACATTGCCGTCTATCCCAGTGGTA
ATGCTCGTCCCAAGGTGGGGCCGGAGCTGTGGCTATGCTGATTGGGCCCAAGGCCCTC
TGGCCCTGGAGCGAGGGCTGAGGGGAACCCATATGGAGAATGTGTATGACTTCTACAAAC
CAAATTTGGCCTCGGAGTACCCAATAGTGGATGGGAAGCTTTCATCCAGTGCTACTTGC
GGGCCTTGGATCGATGTTACACATCATACCGTAAAAAATCCAGAATCAGTGGAAAGCAAG
CTGGCAGCGATCGACCCTTACCCCTTGACGATTTACAGTACATGATCTTTCATACACCCT
TTTGCAAGATGGTCCAGAAGTCTCTGGCTCGCCTGATGTTCAATGACTTCCTGTGAGCCA
GCAGTGACACACAAACAGCTTATATAAGGGGCTGGAGGCTTTCGGGGGGCTAAAGCTGG

FIGURE 1 (CONT'D)

AAGACACCTACACCAACAAGGACCTGGATAAAGCACTTCTAAAGGCCTCTCAGGACATGT
TCGACAAGAAAACCAAGGCTTCCCTTTACCTCTCCACTCACAATGGGAACATGTACACCT
CATCCCTGTACGGGTGCCTGGCCTCGCTTCTGTCCCACCACTCTGCCAAGAACTGGCTG
GCTCCAGGATTGGTGCCTTCTCTTATGGCTCTGGTTTAGCAGCAAGTTTCTTTTCATTTTC
GAGTATCCCAGGATGCTGCTCCAGGCTCTCCCCTGGACAAGTTGGTGTCCAGCACATCAG
ACCTGCCAAAACGCCTAGCCTCCCGAAAGTGTGTGTCTCCTGAGGAGTTACAGAAATAA
TGAACCAAAGAGAGCAATTCTACCATAAGGTGAATTTCTCCCACCTGGTGACACAAACA
GCCTTTTCCAGGTACTTGGTACCTGGAGCGAGTGGACGAGCAGCATCGCCGAAAGTATG
CCCGGCGTCCCGTCTAAAGGTGTTCTGCAGATCCATGGAAAGCTTCTGGGAAACGTATG
CTAGCAGAGCTTCTCCCGTGAATCATATTTTAAAGATCCCACTCTTAGCTGGTAAATGA
ATTTGAATCGACATAGTAGCCCCATAAGCATCAGCCCTGTAGAGTGAGGAGCCATCTCTA
GCGGGCCCTTCATTCTCTCCATGCTGCAATCACTGTCTGGGCTTATGGTGCTATGGAC
TAGGGGTCTTTGTGAAAGAGCAAGATGGAGCAATGGAGAGAAGACCTCTTCTGAATCA
CTGGACTCCAGAAATGTGCATGCAGATCAGCTGTTGCCTTCAAGATCCAGATAAACTTTC
CTGTCTATGTGTTAGAACTTTATTATTATTAATATTGTTAACTTCTGTGCTGTTCTGTG
AATCTCAAATTTTGTACCTTGTCTAAGCTAATATATAGCAATTAAGAGAGAGAAAGA
G

Gene 657. >ENST00000235521 cDNA sequence

CCCTTCTCAAGATGGCGCTGCACTCAATGCGGAAAGCGCGTGAGCGCTGGAGCTTCATCC
GGGCACTTCATAAGGGATCCGCAGCTGCTCCCGCTCTCCAGAAAGACAGCAAGAAGCGAG
TATTTTCCGGCATTCAACCTACAGGAATCCTCCACCTGGGCAATTACCTGGGAGCCATTG
AGAGCTGGGTGAGGTTACAGGATGAATATGACTCTGTATTATACAGCATTGTTGACCTCC
ACTCCATTACTGTCCCCAAGACCCAGCTGTCTTCCGGCAGAGCATCCTGGACATGACTG
CTGTTCTTCTTGCCTGTGGCATAAACC CGAAAAAAGCATCTTTTCCAACAATCTCAGG
TGTCTGAACACACACAATTAAGTTGGATCCTTTCCTGCATGGTCAGACTACCTCGATTAC
AACATTTACATCAGTGGAAGGCAAAGACTACCAAGCAGAAGCACGATGGCACGGTGGGCC
TGCTCACATACCCAGTACTCCAGGCAGCCGACATTCTGTTGTACAAGTCCACACACGTTTC
CTGTTGGGGAGGATCAAGTCCAGCACATGGAAGTCTAGTTTCAAGGATCTAGCACAAGGTTTCA
ACAAGAAGTATGGGGAGTTCTTTCCAGTGCCCGAGTCCATTCTCACATCCATGAAGAAGG
TAAAATCCCTACGTGATCCTTCTGCCAAAATGTGAAATCAGACCCTGACAAACTGGCCA
CCGTCCGAATAACAGACAGCCCAGAGGAGATAGTGCAGAAATTCCGCAAGGCTGTGACAG
ACTTCACCTCGGAGGTCACTATGACCCGGCTGGCCGCGCTGGCGTGTCCAACATAGTGG
CGGTGCATGCCGCGGTGACGGGGCTCTCCGTGGAGGAAGTGGTGCGCCGAGCGCGGGCA
TGAACACTGCTCGCTACAAGCTGGCCGTGGCAGATGCTGTGATTGAGAAGTTTGCCCCAA
TTAAGCGTGAAATTGAAAACTGAAGCTGGACAAGGACCATTTAGAGAAGGTTTTACAAA
TTGGATCAGCAAAAGCCAAAGAATTAGCATACACTGTGTGCCAGGAGGTGAAGAAATTGG
TGGGTTTTCTATAGGAAGTTTCAACGAATCACAGCAAGGCTTTTGTGCCTTGCACTCCAT
GCATTCTGATAACGGCAGCTTTTCTAAAAAGAAAAAGTTATAGTTTTGGGACATTTAATT
TGGTATAGCTGATTATTGGCTTTATTTGATGAATATTGCTTTGTAGCTTTGAAATACGAC
AGTGTTCCAAATCCCATCAACAAAATGCTGTGAACAACAACAACAAAAATAAATCAAGA
AGGCATAGCTGTCTGAATCCCCAATTATTGAGGCACACTCCTTGGCCTGCAGAAATGTGA
TTGAAGTAAGGAGTAATTTGGGAAATGGAGTATCATTTGTGCTTCTCTCTGGAGTACTTA
CTGTAACAGATGCACACGTTATCTACTTCAACCCTTTTATAAAGCAATATATAGAGGTCT
TAGATGTATAATCCTTGAGATGCCATTTGATCAGATGCCAATTTGTATTACAGAGCTCATA
AAAACAAGTCCATTCTTATAGTTTGTGTGCTGAGACGGTGCCTGATTTAATATATTT
AAGCTGCTTAACTTGTTTTCCAAGAGATAACCAACTGTTCCAGCAATAATTTGTTTTT
TAATTACAGAGATATGGGATATGATCTTCTAAGGAGGTGCAATTATTTTGACCTGATTTAT
TTATTGTACAAGAGCCCAAGTCCCTGAATTATATTCTTAATAAGTGCTTTCTTGCAATTCA
TTTCAGTTTAGTCTACCAACCCCTATGAATTAGGAGAATTATTGTCAATTTTACACATG
AGGAAAGTGAGGCTGAGAGAATCCAATTAGCTTGTACGATATCACTCCATAAGAGAAGCA
AATCTGAGAGTAAAACCTTACCCCTTATTCTTAAGAATAGTGCTTGTTTTATTAGTACA
AAAAAATGCTGAAAGGCAGCGTTTTTTAGACTCTAAACATTCTGATTTTGAAGGTGGGT
GTTGGAACGACTGATGATGTTTTTTATATCATCAATTAGCCAATGGATGCGAACTTAAA
ATCTGGATTACAGAACCCTGGTCACATTTCCCATCAAATCCCCAAGGCGGTCCCAA

FIGURE 1 (CONT'D)

GTTCTCTCCTCTACGCTCATTGCAGAAATACTTTGAAATAGGTTCTGCCAGTCTACAATA
GCAGTGAAGACTGACAAATCAGATATTCCTAATGACTGACAGCTTCTCATCTTGCCCTCTA
CCTCAGTTAAGTAATGTCACCTGAAACCTAGCTTTTCTGCACCTCCATTTCTGACACCT
GAAAATGAAAATGATAATCCTAACTTATACACCAAGACCTGTTAGCAAGATCGATTTTGT
AACAGAAATTGCTTATAAGTTTTTTATCAGTAAGGACCATGATCACCATTGTACATACA
TAACTAGGTTGTTGAGCAAAGCATTTTTGCTCATGTTTCTTAAGGAAGTAGAGTAGTCCT
TGTGTCAGAACACATGTTAATCCACAAAACGCCCCATCCAGATTCAAATTA AAAACATC
GTTTTTAGGATTCTTGAGCTAGCCTGGATCATGGGTAAAGGAAACATTTTGCCTTTGT
ATCTTATACTGGAATGGGATGTCTGTAAGTCCTAGAACCTCTTTGAGCATATTTCTTACA
AGCCTCTGTTTTTTCCCTTTAAAGGAACTTTGAAAGGATTGTGAATACTGGAAAATGA
CAAACTAAAGGTAGATCTATC

Gene 658. >ENST00000331009 cDNA sequence

GGGCCAGTTAAATGGATCATCATCTCTAACCCCTCTGCTGACAGCCCCATGTTTGTGATG
GGTATGAACCATGAGAAATATAACAACAGCCTCAAGATCATCAACAGTGTTCCTTGTAAC
ACCAACTGCTTAGCATCTCTGGCCAAGATCATCCATGACAACTCCGATTTAGTGGAAGGA
CTCATGACCACAGTAAATGCTATGATTGCCACCCAGAAGACTGTGGACGGCCCCCTCTGTG
AAACTGTGGCATGACAGCTGCAGGGCTCAAAGGAACATCATCCTTGATCTACTGGCACT
CTCAAGGCTGTGGGCAAGTATATCAATGAGCTGCATGGGAAGATCACTAGCATGGCATTTC
CAGGTCCCCACCACGAACATGTTGGTCATGAACCTGACCTGCCCTCAGGAAAAGCATGCC
AAATATGATAACATCAAGCAGGTGGTGAAGGCATCAGAAGGCCCCATAAGGGCATCCTG
TGCAACACTGAGAACCAGGTTGCCTCCTCCAGCTTAACCATTGACACCCACTCTTCCACC
TTCAATCCTGGGACTGGCATTGCCCTC

Gene 659. >ENST00000335580 cDNA sequence

CTCCAGAACAAGACCAAGCTGACAGTGCTGGAAGGAGACATTCTGGATGAGCCATTCTG
AAGAGAGCCTGCCAGGACATGTCTGGTCATCATCCACACTGCCTCTATCATATATGTATC
GGTGTCACTCACAGAGTCCATCATGAATGTCAATGTGAAAGGTACAATGACACGCCTCAC
CAAAGCTATGATAACCTTAGTTACACCTTGAGCAAAGAGTTCCGGCCTCTGCCTTGATTCC
AGTTGGAGCCTGCCTTTATCCCTGACGTACTGGATTGGCTTCCTGCTGGAAATAGTGAGC
TTCCTGCCGAGGCCAGTTTACACCTGTGACCGCCCTTCAACCACCACAGAGTGACATTG
TCAAATAGCGTGTTCACCTTCTCTTACAAGAAGGCTCAGCAAGATCTGGCATATAAGTCA
CTTTACAGCTGGGAGGAAGCCAAGCAGAAAACCATGGAGTGGGTTGGTTCCCTTGTTGAC
TGGCACAAGGAGACCCTGAAGTCCAAGACTCAGTGA

Gene 660. >ENST00000271263 cDNA sequence

CCCTACCCGTGCCCCGAGTGCGGCGAGGCCTTCAGCCTCAGCTCGCATCTGTTGAGCCAC
CGGCGCGCGCACGCGGCGGCAGCGGCGCGGGGGCGGCGGCGCTGCGGCCCTTCGCCTGC
GGGGAGTGCGGCAAGGGCTTCGTGCGCCGTTTCGCACCTGGCCAACCACAGCGCATCCAC
ACGGGCGGAGAAGCCGCACGGCTGTGGCGAGTGCGGCAAGCGCTTCAGCTGGCGCTCGGAC
TTGGTGAAGCACCAGCGCGTGCACACGGGCGAGAAGCCCTACATGTGCTCCGAGTGCGGC
GAGACCTTCAGCGTCAGCTCGCACCTCTTCACGCACAAGCGCACGCACTCGGGTGAGCGG
CCCTACGTGTGCCGCGAGTGCGGGAAGGGCTTCGGGCGTAACTCGCACCTGGTGAACAC
CTGCGCGTGCACACCGGCGAGAAGCCCTTCCGCTGTGGCCAGTGCGAGAAGCGCTTCAGC
GACTTCTCCACGCTCACGCAGCACCAGCGCACGCACACGGGCGAGAAGCCCTACACGTGC
ATCGAGTGCGGCAAGAGCTTTATCCAGAGCTCCACCTGATCCGCCACCGCCGCATCCAC
ACGGGCAACAAGCCGCACAAGTGTGCGGGCTGCGGCAAAGGCTTCGCTATAAAACGCAC
CTCGCGCAGCACCAGAAGCTGCACCTGTGTTAG

Gene 661. >ENST00000335229 cDNA sequence

CTGACGGTGCTGGAAGGAGACATTCTGGATGAGTCATGCCTGAAGAGAGCCTGCCAGGAC
ATGTCTGGTCATCATCCACACCACCTCCATCATAGACATCATCGGTGTCACTCACAGAGAG
TCCATCATGAACATCAATGTGAAA

Gene 662. >ENST00000330630 cDNA sequence

TCTGCTATGTATTCTAGAAAGGCCACGTACAAGAGGAAGTACTCAGCCACTAAATCCAAG
GTTGAAAAGAAAAGAAGCTTCTTGCAACTGTTACAAAACAGTTAGTGGTGACAAGAAT
GGTGGTATCTGGGTGATTAACTTCACAAAATGCCTAGATATTATCCTACTGAAGACGTG
CCTCAAAAGCTGTTGAGCCATGGCAAAATACCTTCAGTTGGCACGTGAGAAAACCTGCGA

FIGURE 1 (CONT'D)

GCCAGCATCACCCCCAGGACCATTCTGATCATCCTCATTGGACACCACAGGAGCAAGAGG
 GTGGTTTTCTGAAGCAGCTGGCTAGCGGCTTGGTTCTTGTGACTGGACCTCTGGTCCTC
 AATCGAGTTCTCTACAAAGAACACACCAGAAATTTGTCATTACCTCAACCAGAATTGAT
 ATCAGCAATGTAAAAACCCCAAAACATCTTACTGATGCTTACTTCACAAAGAAGAAGCTG
 CAGAAGCCCAGACATCAGGAAGGTGAGATCCTTGACACAGAAAAAGAGAAATACGAGATT
 ACAGAGCAGTGCAAGATTGATCAGAAAGCTGCGGACTCACAAATTTTGCAAAAATCAAAG
 Gene 663. >ENST00000334351 cDNA sequence
 ATGGGTGGTAGAGAGAGGTATAACATTCCAGCCCCTCAATCTAGAAATGTTAGTAAGAAC
 CAACAACAGCTTAACAGACAGAAGACCAAGGAACAGAATTCAGATGAAGATTGTTTAT
 AAGAAAAAAGAAAGAGGACATGGTTATAACTCATCAGCAGGTGCCTGGCAGGCCATGAAA
 AATGGGGGGAAGAACAATAATTTTCCAAATAATCAAAGTTGGAATTCTAGCTTATCAGGT
 CCCAGCTTACTTTTTTAAATCTCAAGCTAAACAGAACTATGCTGGTGCCAAATTTAGTGAG
 CCGCCATCACCAAGTGTCTTCCCAAACCAAGCCACTGGGTCCCTGTTTCCTTTAAT
 CCTTCAGATAAGGAAATAATGACATTTCAACTTAAAACCTTACTTAAAGTACAGGTATAA
 Gene 664. >ENST00000328500 cDNA sequence
 GCTCACTCGGTGCCGCTGCCTAGGGGCTGTAGAGGTGCGCGCCGCTCCTGCTGGGGCCTGC
 CCACGCCAAGGACCTGCCTCTGTGCGCTCCTCTTCTATTGCCAGTTTTCCCAGCCAGAA
 CATCCCCTGAAGATGGCAGAGGAGAGCAGCTGTACCAGGGATTGCATGTCCTTCAGCGTG
 CTCAACTGGGATCAGGTTAGCCGGCTGCATGAGGTCTCACTGAAGTTGTACCTATCCAC
 GGACGAGGCAACTTTCCAACCTTGAGATAACTCTGAAGGACATCGTCAGACCGTCCGC
 AGTCGGCTGGAGGAGGCAGGCATCAAAGTGCACGACGTCCGGCTGAATGGCTCCGCAGCT
 GGCCACGTTTTTGGTCAAAGACAATGGCTTGGGCTGCAAAGACCTGGACCTAATCTTCCAT
 GTGGCTCTTCCAACAGAGGCAGAATTTTCAAGCTGAGATGTGGTTCTGTGTTCCCTT
 CTGAATTCCTGCCAGAGGGTGTGAACAAGCTCAAATCAGTCCAGTCACTCTGAAGGAG
 GCATATGTGCAGAAGCTAGTGAAGGTTTGCACGGACACTGACCGCTGGAGCCTGATCTCC
 CTCTCCAACAAGAACGGGAAGAACGTGGAGCTGAAGTTTGTGCACTCCATTCCGCGTCAG
 TTTGAGTTCAGTGTGGACTCTTTCCAAATCATCCTGGATTCTTTGCTTTTCTTCTATGAC
 TGTTCCAATAATCCCATCTCTGAGCACTTCCACCCACCGTGATTGGGGAGAGCATGTAC
 GGGGACTTTGAGGAAGCTTTTGACCATCTGCAGAACAGACTGATCGCCACCAAGAACCCA
 GAAGAAATCAGAGGCGGGGACTTCTCAAGTACAGCAACCTTCTTGTGCGGGACTTCAGG
 CCCACAGACCAGGAAGAAATCAAACTCTAGAGCGCTACATGTGCTCCAGGTTCTTCATC
 GACTTCCCGGACATCCTTGAACAGCAGAGGAAGTTGGAGACTTACCTTCAAAACCACTTC
 GCTGAAGAAGAGAGAAGCAAGTACGACTACCTCATGATCCTTCGAGGGTGGTGAACGAG
 AGCACCGTGTGTCTCATGGGGCATGAACGCAGGCAGACTCTGAACCTCATCTCCCTCCTG
 GCCTTGCGTGTGCTGGCGGAACAAACATCATCCCCAGTGCCACCAACGTACCTGTTAC
 TACCAGCCGGCCCCCTTACGTCAAGTATGGCAACTTCAGCAACTACTACGTTGCCCATCCT
 CCAGTCACCTACAGCCAGCCTTACCCTACCTGGCTGCCCTGTAACCTTACCTTGGAGCCTG
 AGGGTTTCCACAGTGGGAACCCCAATAGGGCTAGGGCTCTCAGGTAGGGGAGCCTCCTTC
 TAGATGTAGGCATTTGGCTTTTAAAGGGGAACCTCAGCTCTGATTCTGCTTTTTTTTTTTT
 TTTTCTTTGTGTACCCATTGGAATGGGTCTACAGTGTATCATGAGCCAACCTCAAAGG
 ACCCGTATTACAGTGCCACGTTGGAAAACGCTACAGGAAGCATGACCTATCCACATCTTT
 CCAAGATAGACACTAACATGTATGTCCCAAACATTAGCACGTGGGGGTTGAGCTCTGTG
 CAGTAATCGAGATTGGGAGAATTTGGGCAGCGCGTGAAGAAGTCTAAGCTACTTGTTTTTC
 TCACTTGAGCCCGGGTAGGCTGTGTTGGCCCTCACTTGGGATTCTCAGCAGTTACATGAA
 AGTTGTGCTGATAATCTCTTCTCTTGTACCAATTTTAGTCAGGCAGAAAATGGTAAACAT
 GAGGGTGCTCTTGTGACTTAATTTTTTGTTCAGGGACTAAATTGCTTATGTTTATTCCCT
 GTCAGCGGAGTGGAGAATGTCAATCATCAATAAACCAAGCCAATAGCTGGAGAATTGAG
 ATCTGGTTGAAAGTGGTTTATGGTTTACATGCTGTACTATCCTGAGGAATTGCGAGATAT
 TGCTGAGGGGAAAAAAAATGACCTTTTCTTGAAATGTAACCTGAAAACAAAATAAAATG
 TGAACATAATGTTAATTAGAATTGTGGTGGTGGTAGTGAAGGGGATAATTGTAAATA
 GGAAACATGAATGTTTATTTTTTCTTTAAAGAATTCTTATTAAATGGCTCCCTGCCTTT
 TTTTTCTTTTTCTCATCAGCTCTTTCATGGCTGAATTTTGTGTTTATTCTTCTTAAGAC
 TGAGGATTGTGCTGAGTCCAGAGTCATTGTGGTAACTGACATGAGGGTCTTCCCATGTTT
 TAACTGGAAACCACTTTGGTCACTTCCAAGTATGACAGCTGTTCTTCTGGAGTACT

FIGURE 1 (CONT'D)

TTAGCTATTTTTTGTGTTTTGTTCTTTTCGTTTTTTTTTTTCCAAAAATAGTGACTTCCT
TCTCCAGGTGTGTTTGA CAGCAACTCAATTCAGGAATTTCCGGTAGAACTGAGTGACCTGT
GGAAGTCTTTAGAATCTAACCTGCTGTCTTCGTGCTCTGTGTGAAGGGGAAGCTGGGGG
GTTAGCATGAAGTCTGGCCTTGTGTGCATTGGAGCTTCCAAGGCACTTTGAAATCATTCC
AGTATATTTGGGAAGAATTGAGTGAATGAGAATGCTCTTCCTTATTCTGGTAGATTTGAC
TTGTTTTATAATTCTGCACTTTAGAAGAAAAACAGTGTTAATCTGTAGTTGAAAGAAAGCT
TAGTAGATGAGAGAGTTCTAGGCTACTGTGGCTTTTTCCAGTAGATTTAGATGAGATTAT
GTGTTTTGAAATGTTTTGTGGGATCCCTTAGAAAGCATCACTTCAGGGCAGAGACACTCA
ATATTGCCAGCCAGCTTGGGTTCTAAAGTGATTTAATCAAATTCATGCTCCTGATCTTTT
TTTTCCCCCTTCCTTTGGCTATGAAAACCCAAAGCCCGGAGTGATTGTTTTCTCCTTGCT
TTAAGCAGTGAAGTTATCCTAATGCAAAAGAGCTTAGTAGAAAATGAGTGGTTTACCTTT
TTTTCTAAAAGTATATTTTCAAGTTTATTCTGGAATGTGATGTCTTGGTCTCTTAAAAG
CAGATCAGCCATGACTGAAACTCAAGGCTTAGCTGGTATCTATGTTGTGCTACATTAGGT
GACTAGAAGCCACTTCTTAGTGTAATCAGCTCCTGTTTCCCTGTGAGCCTTAGTTATATT
TTAATTCAGTGGCTTTGAGTCAAGGCCGGTTCTAATTGAGGGGACCCAGTGTGCTTCAGT
GTTAAGAGTGGGGCAATGAAGAGTGAA CCCCCAATGAAGAGTGATCCAACTTTGGAAACT
ATCTGGTCATTCATGACCTTAAAAAGCTGCCATGGTGGTCAAATGGCATGTGTTTGACA
AAAATGACCGATGTGTTTAA CCAAAGCTTTGAAATGTGATGAAGCCACCAACATAAGCAC
TTGCCTAACAGAAATCAGTATTTCTTCTACTTAGAAGGCTTGGGGCCAGGGTAATGAGG
CACCAGATGAAGATAAGATCTGCATCAAGGAATTAAATTTCCAGTTTGTCTTGG

Gene 665. >ENST00000313132 cDNA sequence

CTTCCTCCATCATACGCTCACCTTGTCAAAGCTCCCAGAGAGGGTTTCAACAAAGGATTT
GGTTTTTAAGTTGGTGAAAGAGGTAAAAGCAAAGTCATGTGGTGGCGTGGAATTCTTAAAG
TCTGGTTTCATCTAATACAGACACTGGTAAAGTTACTGGGATCTTGGAGTCCAAATATAAA
TGGTGCAAGTATGATTTGACTTTCACAGAAAAATGGAACACTGATGACACTCTGGGGACA
GAAATCACAAATTGAAGACCAATTTGTCAAGGTTTGAAATGATATTAGATACTAGCTTC
TCACCAAACATAGGAAAGAAAAGTGGCAAAATCAAGTCCTCTTACAAGAAGCAGCGTGTA
AAGCTTGGCCCGTGATGTTAACTTTGATTTTGTCTGGACTTGCAATTCATGGCTCACTTGCT
GGGTACCAGATGAGCTTTAACAGCACCAAGTCAAAGCAGACAAAGAATAAATTTGCAGTG
GGCTACAGGACTGGGGACTTCCAGCTGCACACTAATGTCAATGATGGGGCAGAATTTGGA
GGATCAGTTTATCAGAAAGTTTGTGAAGATCTTGATGCTTTAGTAAACCTTGCTTGACA
TCAGGTACCAGCTGCACTCGTTTTTGGCCTTGCAGCTAAATTTAGTTGAAACCCATTGCT
TCCATTTCTACAAAAGTCAACAACTGGTTGACTGGGGTCAGCTACACTCCACCCCTGAGG
CCTGGTGTGAAGCTCACCTGTCTGCTCTGGTAGATGGGAAGAGCATGGATGCTGGAGGC
CACACACTTGGCCCCCTGGAGTTGCAGGCTTAATCCAGATGAAAGAAACCTCTGGGAATGG
ATAGCAGAAGATTTGGCCTTGATGTATTTCCATTGTGACGAGCAGGCTTTTTCCCCCTGA

Gene 666. >OTTHUMT00007007936 cDNA sequence

ATATCAAAAATGCAAACTTGGGGAGGGCATAAAAATCACACACAAGGCTGCCACTTCACA
CTTCGAGGGTTGCACAACGGCCGGGCAAAGGCGCTCCTCACTTTCCAGATGGGGCGGCAA

Gene 667. >OTTHUMT00007007937 cDNA sequence

TTGAGTATGCTCAGGCTTCAGAAGAGGCTTGCCTCTAGTGTCTCTGCTGTGGCAAGAAG
AATATCTGGTTAGACCCCAATGAGACCAATGAAATCACCAATGCCAACTCCCGTCAGCAG
ATCCGGAAGCTGATCAAAGATGGGCTGATCATCCGCAAGCCTGTGATGGTCCATTCCCCC
GCTTGATGCCGGA AAAACACCTTGGCCTGCCGGAAGGGCAGGCATATGGGCATAGGTAAG
CGGAAGGGTACAGCCAATGCCCGAATGCCAGAGAAGGTACGTGGATGAGGAGAATGAGG
ATTCTGCACCGGCTGCTCAGAAGATACCGTGAATCTAAGAAGATTGATCGCCGCATGTAT
CACAGCCTGTACCTGAAGGTGAAGAGGAATGTGTTAAAAACAAGCAGATTCTCATGGAA
CACATCCACAAGCTGAAGGCAGACAAGGCCCCGCAAGAAGCTCCTGGCTGATCAGGCTGAG
GCCCGCAGATCTAAGACCAAGGAAGCACACAAGAGCTATGAAGAGCACCTCCAGGCCAAG
AAGGAGGAGATCATCAAGACTTTGTCCAAGGAGGAAGAGACCAAGAAA

Gene 668. >OTTHUMT00007007938 cDNA sequence

AAGAAGAGCGTCCCCAGGAGAAAACAGCTTGACCACTATGCTGTACAGAGTTTCTCTG
ACCACTGAGTCTGCCATGAAGAAGATAGAAGACAACAACACACTTGTGTTCACTGTGGAT
GTTAAAGCCACCAAGCACCAGATCAAAACAGGCTGTGAAGAAGCTCTATGACACTGATGTG

FIGURE 1 (CONT'D)

GCCAAAGTCCATGCCCTGATTAGGCCTGATGCAGGAAGAAGGCATAAGCTCCACTGGCTC
CTGATTACAATGCTTTGGATATTGCCAACAAAATTGGGATC

Gene 669. >OTTHUMT00007007939 cDNA sequence

ATGAAGAAACAAGGAGTAAGCCCAAAGCCGCTGCAATCTTCCGCCCCAGCCCGTCTAAG
CGGCCCTGCGGGGCTCCCCGCGGGAGCGGGAGGTGGAAAAGTCGGCCCTAGGCGGC
GGGAAACTGCCGGGGGGCGCCAGGAGGTCTCCCCGGGGAGGATCCCAAATCTGAAAAG
CGAAAAGGCTTGGAGCTAAAGGTGGTGGCCAAGGCCCTTCTCGGCCCTTCCAGTTCGTC
TGTAATTCCCTGGCGCAGCTCCGGGAAGAGGTGCACGAAGTGCAGGCGCGGTGGTTCCCC
AGCAGAACCCTCTGCATCGAGCCGTCTTTGTGGCAATTCTACATTGGTTACATTTAGTA
ACACTTTTTGAAAATGATCATCATTTCTCTCACCTCTCATCTTTGGAACGGGAGATGACT
TTTTGCATTGAAACGGGACTTTATTATTCTTACTTCAAGACCATTATTGAAGCACCTTCA
TTTTTGGGAGGACTGTGGATGATTATGAATGACAGGCTTACTGAATATCCTCTTGTAATT
AATGCAGTAAACGCTTCCATATTTATCCAGAGGTAATCATAGCCTCCTGGTATCGCACA
TTCATGGGAATAGTGAATTTATTTGGACTAGAACTAAGACCTGCTGGAATGTCACCAGA
ATAGAACCTCTTAATGAAGTTCAAAGCTGATTGCGAGATCCTGCTTGCTTTTATGTTGGT
GTAATCTTTATTTTAAATGGACTAATGATGGGATTGTTCTTCATATATGGACATACCTA
AGTGGTACTGAACTGGGAGGTCTTATTACAGTACTGTGCTTCTTTTTCAACCATGGAGAG
GCCACCTGTGTGATGTGGACACCACCTCTCCGTGAAAGTTTTTCTATCCTTTCCTTGTA
CTTCAGATGTATGTTTTAACTTTGATTCTCAGGACCTCAAGCAATGATAGAAGGCCCTTC
ATTGCACTCTGTCTTTCCAATGTTGCTTTTATGCTTCCCTGGCAATTTGCTCAGTTTATA
CTTTTTACACAGATAGCATCATTATTTCCCATGTATGTTGTGGGATACATTGAACCAAGC
AAATTTCAGAAGATCATTTATATGAACATGATTTTCAAGTACCCTTAGTTTCATTTTGATG
TTTGGAATCAATGTACTTATCTTCTTATTATTCTTCATCTTTGTTAATGACATGGGCA
ATAATTCTAAAGAGAAATGAAATTCAAAACTGGGAGTATCTAAACTCAACTGCTGGCTA
ATTCAAGGTAGTGCCTGGTGGTGTGGAACAATCATTTTGAAATTTCTGACATCTAAATC
TTAGGCGTTTTCAGACCATATTTGCCTGAGTGATCTTATAGCAGCCGGAATCTTAAGGTAT
ACAGATTTTGATACTTTAAAATACACCTGTTCTCCGAATTTGACTTCATGGAAAAAGCG
ACTCTGCTGATATACACAAAGACATTATTGCTTCCAGTTGTTATGGTGATTACATGTTTT
ATCTTTAAAAGACTGTTGGTGATATTTGCGGTGTTTTAGCTACAAACGTTTTATCTAAGA
AAACAGCTCCTTGAACACAGTGAGCTGGCTTTTACACATTGCAGTTGTTAGCATTACT
GCCCTTGCCATTTTAAATTTTGGAGCTAAAGCTGTTTTTGCACAGCACATGTGTGTTATG
GCTTCTTTGATATGCTCTTGACGGAAATAAATTGTTTTCTTTGTTTTCAGCTCTTTGGCTG
GCTTTTTCGCAGAGTTCGAGAGAGAATGTTATCTTTGGCATTCTAACAGTGATGTCAAT
ACAAGGTTATGCAAACCTCTGTAATCAATGGAGCATAACAGGAGAATTTAATGATTTGCC
TCAGGAAGAATTTTACAGTGGATCAAATACAATACCGTACCAGATGCTGTCTTTGCAGG
TGCCATGCCTACAATGGCAAGTGTCAAGCTGTCTACACTTCATCCCATTTGTGAATCATCC
ACATTACGAAGATGCAGACTTGAGGGCTTGGAACAAAATAGTTTATTCTACATATAGTGG
AAAATCTGCCAAAGAAGTAAGAGATAAATTGTTGGAGTTACATGTGAATTATTATGTTTT
AGAAGAGGCATGGTGTGTTGTGAGAACTAAGCCTGGTTGCAGCATGCTTGAAATCTGGGA
TGTGGAAGACCCTTCCAATGCAGCTAACCTCCCTTATGTAGCGTCTCCTTGAG

Gene 670. >OTTHUMT00007006209 cDNA sequence

TATAACGTGAGGGCTGAATGCAGCCATTCTCTGGAGAACTTCCTCACACACCGCAGCAA
AGAGAAGACTGAAAGACAAACCTGGGTGCAGCCAGAGAGGTCCAGATAGATGAGCTTGTG
GCATCCATTCCCCAAGTTCAGCCTAGGGACTCCACGTACCCAGCTGGGTCTCATTGTTT
CAGAACTGCATTAGTTAAGATTACCCAGACTTGGATTTCAAAGGAATACTTTATTGTTT
CGTCTGTAACACGAAGTAATTGGGGCCAGCTGGATGTGAGGATGCGTGTGGTTACCATTG
TAATCTTGCTCTGCTTTTGCAAAGCGGTGAGCTGCGCAAAGCAAGCCCAGGCAGTGTGA
GAAGCCGAGTGAATCATGGCCGGGCGGGTGGAGGCCGGAGAGGCTCCAACCCGGTCAAAC
GCTACGCACCAGGCCTCCCGTGTGACGTGTACACATATCTCCATGAGAAATACTTAGATT
GTCAAGAAAGAAAATTAGTTTATGTGCTGCCTGGTTGGCCTCAGGATTTGCTGCACATGC
TGCTAGCAAGAAACAAGATCCGCACATTGAAGAACAAACATGTTTTCCAAGTTTAAAAAGC
TGAAAAGCCTGGATCTGCAGCAGAATGAGATCTCTAAAATTGAGAGTGAGGCGTTCTTTG
GTTTAAACAACTCACCACCCTCTTACTGCAGCACAACAGATCAAAGTCTTGACGGAGG
AAGTGTTTCATTTACACACCTCTCTTGAGCTACCTGCGTCTTTATGACAAACCCTGGCACT

FIGURE 1 (CONT'D)

GTACTTGTGAGATAGAAACGCTTATTTCAATGTTGCAGATTCCCAGGAACCGGAATTTGG
GGAACCTACGCCAAGTGTGAAAGTCCACAAGAACAAAAAATAAAAACTGCGGCAGATAA
AATCTGAACAGTTGTGTAATGAAGAAGAAAAGGAACAATTGGACCCGAAACCCCAAGTGT
CAGGGAGACCCCCAGTCATCAAGCCTGAGGTGGACTCAACTTTTTGCCACAATTATGTGT
TTCCCATACAAA CACTGGACTGCAAAAGGAAAGAGTTGAAAAAGTGCCAAA CAACATCC
CTCCAGATATTGTTAAACTTGACTTGTGCATACAATAAAATCAACCAACTTCGACCCAAGG
AATTTGAAGATGTT CATGAGCTGAAGAAATTAACCTCAGCAGCAATGGCATTGAATTCA
TCGATCCTGGGTCTTTTGAGATGAAACCTGCAAGTAGACTTACGTGAATGATTTTTGCTG
TGCCGCTTTTTTAGGGCTCACACATTTAGAAGAATTAGATTTATCAAA CAACAGTCTGCA
AACTTTGACTATGGCGTATTAGAAGACTTGTATTTTTTGAACTCTTGTGGCTCAGAGA
TAACCCCTTGAGATGTGACTACAACATTCCTACTCTACTACTGGTTAAAGCACCCTA
CAATGTCCATTTTAATGGCCTGGAATGCAAAACGCCTGAAGAATACAAAGGATGGTCTGT
GGGAAAATATATTAGAAGTTACTATGAAGAATGCCCCAAAGACAAGTTACCAGCATATCC
TGAGTCATTTGACCAAGACACAGAAGATGATGAATGGGAAAAAAACATAGAGATCACAC
CGCAAAGAAGCAAAGCGTAATAATTACTATAGTAGGATAAGGTAGAAATTGTTCTGATTG
TAATTAGTTTTGTATTTTCTATACTGGTGTAGAAAACATATGTTTACATTTGATTAACT
GTGTTGCCTATTTATGCAGGGTAATCCAGCTAAAGGAAGCTTTCTTTAATTATAAGTATT
ATTGTGACTATTATAGTAATCAAGAGAATGCTATCATCCTGCTTGCCTGTCCATTTGTGG
AACAGCATCTGGTGATATGCAATTCCACACTGGTAACCTGCAGCAGTTGGGTCTTAATGA
TGGCATTAGACTTTTCATAATGTCTGTATAAATGTTTTTACTGCTTTTAGAAAATAAAGA
AAAAAACTTGGTTCATGTTTA

Gene 671. >OTTHUMT00007006222 cDNA sequence

TCCTTCTAGCAGAAATGGCGGCTGCGGCGGCTCGAGTGGTGTTCATCCGCGGCGCGGC
GGCGGCTCTGGGGTTTTAGCGAGAGTCTTCTAATCCGAGGCGCTGCGGGACGGTCATTAT
ATTTTGGAGAGAACAGATTAAGAAGTACACAGGCTGCTACCCAAGTTGTTCTGAATGTTT
CTGAAACAAGAGTAACATGTTTGAAGAGTGGACTCAGAGTAGCTTCGGAAGACTCTGGGC
TCTCAACATGCACAGTTGGACTCTGGATTGATGCTGGAAGTAGATACGAAAATGAGAAGA
ACAATGGAACAGCACACTTTCTGGAGCATATGGCTTTCAAGGGCACCAAGAAGAGATCCC
AGTTAGATCTGGAACCTTGAGATTGAAAATATGGGTGCTCATCTCAATGCCTATACCTCCA
GAGAGCAGACTGTATACTATGCCAAAGCATTCTCTAAAGACTTGCCAAGAGCTGTAGAAA
TTCTTGCTGATATAATAACAAAACAGCACATTGGGAGAAGCAGAGATTGAACGTGAGCGTG
GAGTAATCCTTAGAGAGATGCAGGAAGTTGAAACCAATTTACAAGAAGTTGTTTTTGATT
ATCTTCATGCCACAGCTTATCAAAATACTGCACTTGGACGGACAATTTGGGACCAACTG
AAAATATCAAATCTATAAGTCGTAAGGACTTAGTGGATTATATAACCACACATTATAAGG
GGCCAAGAATAGTGCTTGCTGCTGCTGGAGGTGTTTTCCCATGATGAATTGCTTGACTTAG
CAAAGTTTTCATTTCCGTGACTCTTTATGCACACACAAAGGAGAAATACCAGCTCTGCCTC
CCTGCAAATTCACAGGAAGTGAGATTTCGTGTGAGGGATGACAAGATGCCTTTGGCGCACC
TTGCAATAGCTGTTGAAGCTGTTGGTTGGGCACATCCAGATACAATCTGTCTCATGGTTG
CAAACACGCTGATTGGCAACTGGGATCGCTCTTTTGGGGGAGGAATGAATTTATCTAGCA
AGCTGGCCAGCTCACTTGTCTATGGCAATCTTTGCCATAGCTTTTCAAGTCTTTCAACACTT
CCTACACAGATACAGGATTATGGGGACTGTATATGGTTTGTGAATCATCCACTGTTGCAG
ACATGCTACATGTTGTTCAAAAAGAATGGATGCGACTCTGTACAAGTGTACAGAAAAGTG
AGGTTGCACGAGCCAGAAATCTTCTGAAAACAACATGTTGTTGCAGCTTGATGGTTCAA
CTCCAATTTGTGAAGATATTGGTAGGCAATGTTATGCTATAATAGAAGGATTCCCATCC
CTGAGCTTGAAGCAAGAATTGATGCTGTGAATGCTGAGACAATTCGAGAAGTATGTACCA
AATACATTTATAATAGGAGTCCAGCTATTGCTGCTGTTGGTAAGCCTGGCTTCTTTTCTT
CTATGCAAAAAGTTGGCCAAGTACTTTTAATTAACCTCTTCTTTTAATCCTTAGGTCCCA
TTAAGCAACTACCAGATTTTAAACAGATACGCAGTAACATGTGTTGGCTTCGTGATTAAA
ATGCTCCTAATCAAGATTGTTTGAACACATGTATTTATAAAACAGAGCTAGAGAAAAATA
AAAATGAACATGTATATACATTTGGAAATTTGAATTAAATACTGTATCATACTTTCAAAG
GATAAAAAGACTACCCCTCT

Gene 672. >OTTHUMT00007006239 cDNA sequence

ACTGGAGCTGCTGCCTCTGTCTGCTAAGATGTGAAGTCCAAGACTGAAAGTAACATAGCA
GAAGGAGAACC AAAAGATATGTTGAGTCTTGATGCTATTTGTTGAACAGTCCTGAATCC

FIGURE 1 (CONT'D)

AGCTGTGTCGGAGTCAGCGCAGCTTTTGAAGCTGGAGAGCATCATATTTTAGAAAAGATCA
AGCAATGTGGATGAGGACACATTAAAAAGAGAAGACCGAGAGGAGGGGACACCACTCAGG
CTTATAACCTCCAGCTCACATTTTCAACCAAAGGACCAAAGCCTAGACCTGAGATCTGG
CACTTGCAAAAAGAAAGATCACCTGGAAGAACAAAATAGAAGACTCCTGCTCCCAATAGG
CTTGGGTGAGGAAGAAGGCTGTTGGCATAATTGTGGAGTAGGAAGATGGAAAACAACCTCC
TAGAGATCCCAAAGCTGAACGCGTGCTTGGGCAGTGGCTGCGGGTGAAGTCATGGGAAG
GCAAGTCATGAAGGGCATTAAATCAAGGATATGTTCTGGGAGTAACTCCCTGCTTTCCCT
GGATGTGTGCGAGAAAGCATAGGCATCCACTTTCTGACCAACAGGAGACCCAGTCTCAGG
ATGGAGCAGACACCATGTCATGGTAGAGCAGAGAGACAGATACAACCTAGGTCCTTGATGA
AATGATTGGCCACTGGATCAGCCACAGTTAAAGACTGCCTACCTTTGGACTTCTGGTTAT
CTTAGGCCAAAAATGTCTTTTTTGTGTTAAGGCACCTTTGAGCCGGGTTTTCTAAGACCTAG
CAGTCTCAACCATCAAACCTAATAAGCTGAATTAAGTAGATTTCTGTGTCATGTCCTTCCT
GCCTGATTGGTAGCCCTTGACTCCAATTTGGCCTCATTTTCCGTACCTTACTGGCTGCCT
TTTCCTCTACTCATAGGTCACCTTGAAATAAAATATAGATTTACTTCAAA

Gene 673. >OTTHUMT00007006260 cDNA sequence

AAGGGGGCGCGGCGCACGCAGTATGGCGCCCAACATCTACTTGGTTCGCCAGCGGATCAG
TCGACTCGGCCAGAGGATGTCCGGCTTCCAGATCAACCTCAACCCGCTCAAGGAGCCACT
CGGCTTCATCAAGGTCCTCGAGTGGATTGCTTCTATCTTTGCTTTTGCCACCTGTGGAGG
TTTTAAGGGCCAAACAGAAATTCAAGTGAATTGTCCTCCTGCAGTTACTGAGAATAAAAC
TGTTACAGCTACTTTTTGGTTATCCATTCAAGTTGAATGAGGCATCATTTTCAAGCCACCTCC
AGGTGTAAACATATGTGATGTAAATTGGAAGATTACGTCCTCATAGGCGATTACTCTTC
TTCTGCACAATTCTATGTTACCTTTGCAGTCTTTGTGTTCTGTACTGCATTGCTGCCCT
TCTGCTTTATGTTGGCTACACGAGTCTGTATCTGGATAGTCGTAAACTTCCTATGATAGA
CTTTGTTGTTACACTTGTGGCACTTTTTTGTGGTTGGTGAGCACTTCAGCCTGGGCTAA
AGCTCTGACAGATATTAATAATAGCTACTGGTCACAATATTATTGATGAACTTCCGCCTTG
TAAGAAGAAAGCAGTACTGTGTTACTTTGGCTCTGTGACCAGTATGGGATCCCTAAATGT
ATCTGTGATATTTGGCTTTCTAAATATGATACTCTGGGGAGGAAATGCTTGGTTTGTGTA
CAAGGAGACCAGCCTACACAGTCCATCAAATACATCTGCCCCCTCATAGCCAAGGAGGTAT
TCCACCTCCTACCGGAATATAAATTAAAGGGAGAAATACACTGTATGAAGTATATGTTGAT
ACTATGACATGTTGCCAACACCTTGAGAAGCATTATTTGTTTCTAATAAAAGTAATGGCT
TTGTCAATATATTGGTGGGTTTTAAACTTTTGTGCTTTTTTACATAAAGCCTGTGCCTTT
CCTAGAAAGTTAAGATGTAAATGTATTCTCACATGTAAATTTGAAAGTTTCAAGGGTCTAT
TATGAAATGATACACATTTTTTAAATGAACCATAATTTTTTTTCACTAAGCTGTTTGCCTTC
CAAAGTGTTTACACCTTAAGCCTTAACATGTATCTTCATTCAAGAAAACAGTTATATTGTC
ATACCATAGTAGGAAGAAAAACCTTTATTTGGAATATACACTACTGTAAGTTTGTACAGA
TCATATACCTACCACTGTCTTTGCTTAAAGAGCCTTGATTACATAAATATGTAGGAAAA
AACATATTGAGTTCAAAATTTATATCTAACATTGTTTATGTTATGATTTTTTTTTTAATTG
CAAAGACTAGGTGTATATTTTTTTCTGTTTTTCTAAATGACCCGTGGTACTTAATAGGTG
TACTAAAATTGTGTTGGGAGCAGGGATTTGGAATTTCTGAGAGATGTGTAGTTAATTTA
GTAATTCTGTTTCATGAGATATGATCTGTTATGCTAGTGGTTTAAATAGGCTTGCTATGTA
AGTAGAACGTGGCTCAACTAGATATCTTTATATGTATGGGCATTACTCTTAGTGATATTT
GTTTCCTGTCTTTGTTGCTCATGCTGTTTAAAGTGCAGGCTGAGACCCAGCCTCTTTGTA
AGTACAGTAAATAATCCACCGTTTTTTTACAGACCCTAGTCAAAGGGTTAAAAAAATTAA
GATTGCTTTCCATGTTTGAATTTTACCATTGAGAGTCAATGAAGTTGCTATTTTGAAGTTT
AGCATTGATATTGTGAAAATAAGTGCAATTTGGATTTTCAATATTTCATTCTT
GTTTCACAAATGAATGATTAAAGGAATTATGCATCATAAAGGAACCTAAGTGAGGTATATG
ATGAGTGTATTGTCTTTGCACACACATATAGGTATATTCTGAATACAAGCTTATTACAT
TTTGCTTCTAATCTTTTTGTTGTACAGGGATTCAAGTTTCTTATTCTTACAACATGATT
GTTTATATGTGAAGCACATCTTGCTGTTGCCTTATTTTTGATGCTTTTATTTCATGACAAG
AATTGTCAATATAAGAATGTATATCTTTTTTGCAACCAATTTAATAAAGGAGTTGAAAGA
AA

Gene 674. >OTTHUMT00007006261 cDNA sequence

CGTCTCAATATGTCTCAAGATGGCGGCCAATGTGGGATCGATGTTTCAATATTGGAAGCG
CTTTGATTTACAGCAGCTGCAGAGAGAACTCGATGCCACCGCAACGGTATTGGCGAACCG

FIGURE 1 (CONT'D)

GCAGGATGAAAGTGAGCAGTCCAGAAAGCGGCTTATCGAACAGAGCCGGGAGTTCAAGAA
 GAACACTCCAGAGGATTTGCGCAAGCAGGTAGCGCCGCTGCTGAAGAGTTTCCAAGGAGA
 GATTGATGCACTGAGTAAAGAAGCAAGGAAGCTGAAGCAGCTTTCTTGAATGTCTACAA
 AAGATTGATTGACGTCCAGATCCCGTACCAGCTTTGGATCTCGGACAGCAACTCCAGCT
 CAAAGTGACGCGCTGCACGATATTGAAACAGAGAACCAGAACTTAGGGAACTCTGGA
 AGAATACAAACAAGGAATTTGCTGAAGTGAAAAATCAAGAGGTTACGATAAAAGCACTTAA
 AGAGAAAATCCGAGAATATGAAACAGACACTGAAGAACCAAGCCGAAACCATAGCTCTTGA
 GAAGGAACAGAAGTTACAGAATGACTTTGCAGAAAAGGAGAGAAAGCTGCAGGAGACACA
 GATGTCCACCACCTCAAAGCTGGAGGAAGCTGAGCATAAGGTTTCAGAGCCTACAAACAGC
 CCTGGAAAAAAGCTCGAACAGAATTATTTGACCTGAAAACCAAATACGATGAAGAACTAC
 TGCAAAGGCCGACGAGATTGAAATGATCATGACGGACCTTGAAAGGGCAAACCAGAGGGC
 AGAGGTGGCTCAGAGAGAGGCGGAGACCTTAAGGGAACAGCTCTCATCGGCCAATCACTC
 CCTCCAGCTGGCCTCAGATCAGAAAGGCACAGAGCTGGAGCAGGCCATAGAGGTGCT
 GACCCGCTCCAGCCTAGAAGTTGAGTTGGCCGCAAGGAGCGGGAGATCGCACAGCTGGT
 GGAGGACGTGCAGAGACTCCAGGCCAGCCTCACCAAGCTGCGGGAGAATTGCGCCAGCCA
 GATCTCACAGCTTGAGCAGCAGCTGAGCGCCAAAAACAGCACACTCAAACAAGTGAAGA
 AAAACTCAAAGGCCAGGCTGACTATGAAGAGGTGAAGAAAGAGCTGAACTTCTGAAGTC
 CATGGAGTTTGCACCGTCCGAGGGCGCTGGGACACAGGATGCGGCCAAGCCCCTGGAGGT
 GCTGTTGCTGGAGAAGAACCGCTCGCTGCAGTCCGAGAACGCGCGCTGCGCATCTCCAA
 CAGCGACCTGAGCGGACGCTGTGCAGAGCTGCAAGTCCGTATCACTGAGGCTGTGGCCAC
 AGCCACTGAGCAGAGAGAGCTGATCGCCCGCTGGAGCAGGACCTGAGCATCATTAGTC
 CATCCAGCGGGCCGATGCCGAGGGTGCCGCTGAGCACCGCCTGGAGAAGATCCCAGAGCC
 CATCAAAGAGGCCACTGCCCTATTCTACGGACCTGCAGCACCAGCCAGCGGTGCCCTCCC
 AGAGGGCCAGGTGGATTCACTGCTTTCCATCATCTCCAGCCAGAGGGAGCGCTTCCGTGC
 CCGGAAACAGGAGCTTGAGGCCGAGAACCGCCTGGCCCAGCACACCCTCCAGGCCCTGCA
 GAGTGAGCTGGACAGCCTGCGCGCCGACAACATCAAGCTCTTTGAGAAGATCAAGTTCCT
 GCAGAGCTACCCTGGCCGGGGCAGCGGCAGTGATGACACGGAGCTGCGGTACTCGTCCCA
 GTACGAGGAGCGCCTGGACCCCTTCTCCTCCTTCAGCAAGCGGGAGCGGCAGAGGAAGTA
 CCTGAGCTTGAGTCCCTGGGACAAGGCCACCCTCAGCATGGGGCGTCTGGTTCTCTCAA
 CAAGATGGCGCGCACCATCGGCTTCTTCTACACACTGTTCTGCACTGCCTGGTCTTCTCT
 GGTGCTCTACAAGCTGGCATGGAGCGAGAGCATGGAGAGGGACTGTGCCACCTTCTGCGC
 CAAGAAGTTGCTGACCACCTGCACAAGTTCCACGAGAATGACAACGGGGCTGCGGCTGG
 TGAATTGTGGCAGTGATACCCCGGGGCTCCCCCGTGACAGTGACGGCTGCGCCTCCACC
 CCGACTGCTCAGTGATCTAATCACTTAGACTCCCCTGAAGAATCCCCATGGAACTGC
 CCTTATCCGCTGTCCAGCAGCTGCCAGAGGCCCCAGGTCACCTCGGGTCCCCTTGAAAGA
 ATGTCTCGGTACATCAGGCCCGCTAGGTCCAGAGAGCGAGCCCCCAATGCCCGGCCAGG
 CTAAGCCGAGAGACCTCTCAGCCCCCACCTCAGGTTAGGGCTCTGCCCCGAGCCTGAC
 CTCTAGCCCTGGTGGCAGAGGTCCCTCAGCTGCGAGGCTAATTGGGTGACCACCGATTCC
 AGCTGCGGTTAATCCAGCTTGGGCCTGTCTGCACTGCGATCCTCTTGGGCTCTCCTAGGA
 TCCCCCATGCCCCGTAAGAGGTGGAAGACGCTTCTTCCAGGACAGCAGGCTTTGAGTC
 CAGCACCCCCAGCCTGCCTTTGCCACCAGCCCCACCCTGCAGAGTATATGAGGCTTGACA
 GAGTCTGCCCCCTCCCCACTGCACCCCAAGAGAGAGAGCCCCAGCCAGCGGAACAGTTT
 CTATTACCCCCTCCCTGCCCCCAGACCCATGTGATTTCTGCTTTCTTTTAGCAAGATA
 TTCTGGTTTCTAGATAAGGAAGAGTCTCTAATGAGCCCCGAGCCCAGTCTCTTCAGAC
 TCATGGATTGGTCTGAGGGGTCTGAACGTCTCCTAGCCAATCAGAACTGGCTGTGGACCA
 CCCTAGCACGGCCACCTCTCAGGGCCACTGGCAGG

Gene 675. >OTTHUMT00007006262 cDNA sequence

ATGAAAGCAGAGGTTGGAACGATGGAAGCAGAAGTTGGAACGATGGAAGCAGAAGTTGGA
 ATGATGGAAGCAGAAGTTGGAATGATGGAAGCAGAGGTTGGAATGATGGAAGCAGAGGTT
 GGAATGATAGAAGTAGAGGTTGGAATGATAGAAGCAGAGGTTGGAATGATGGAAGCAGAG
 GTTGGAATGATGGAAGCAGAGGTTGGAATGAGGGAAGCAGAAGTTGGAATGATAGAAGCA
 GAGGTTGGATTGAGGGAAGAAGAGGTTGGAATGTGGAAGCAGAGGTTGGAACGATGGAAG
 CAGAGGTTGGAACGATGGAAGCAGAAGCTGGAATGA

Gene 676. >OTTHUMT00007006265 cDNA sequence

FIGURE 1 (CONT'D)

CGGAAAAGGACAAGGATCCAAACTGGCGAATTTGCTGATCTTCGCGTCCCTCTCCGCTTT
CCGGCCGGCAGCGCTGCCAGGGTATATTTTCCTTTTTTTCGATCCTGCAACAGCCTCTTTA
AACTGTTTAAATGAGAATGTCCTTGGCTCAGAGAGTACTACTCACCTGGCTTTTCACACT
ACTCTTCTTGATCATGTTGGTGTGAAACTGGATGAGAAAGCACCTTGGAAGTGGTTCCT
CATATTCATTCCAGTCTGGATATTTGATACTATCCTTCTTGTCCTGCTGATTGTGAAAAT
GGCTGGGCGGTGTAAGTCTGGCTTTGACCCTCGACATGGATCACACAATATTAAAAAAA
AGCCTGGTACCTCATTGCAATGTTACTTAAATTAGCCTTCTGCCTCGCACTCTGTGCTAA
ACTGGAACAGTTTACTACCATGAATCTATCCTATGTCTTCATTCTTTATGGGCCTTGCT
GGCTGGGGCTTTAACAGAACTCGGATATAATGTCTTTTTTGTGAGAGACTGACTTCTAAG
TACATCATCTCCTTTCTATTGCTGTTCAACAAGTTACCATTAAAGTGTCTGAATCTGTC
AAGCTTCAAGAATACCAGAGAACTGAGGGAAAATACCAATGTAGTTTTATACTACTTCC
ATAAAACAGGATTGGTGAATCAGGACTTCTAGTCAACCTACAGCTTAATTATTTCAGCAT
TTGAGTTATTGAGATCCTTATTATCTCTATGTAAATAAAGTTTGTGTTTGGACCTCATTTT
TCTACATGA

Gene 677. >OTTHUMT00007006268 cDNA sequence

ATGGCCAAGCGCAGCTCGCTGTACATCCGCATCGTGGAGGGGAAGAACCCTCCCGCCAAG
GACATCACTGGCAGCAGCGACCCCTACTGCATCGTGAAGGTGGACAATGAGCCCATCATC
AGGTACCGCCCCACCCCCAGGACCGAGGGGCGCTCAGCCTCTCATCGGCCCGCGCTCTC
CCCGCAAAGGGGACAGCCACAGTGTGGAAGACCCTGTGCCCCCTTCTGGGGTGAGGAGTAC
CAAGTGCACCTGCCGCCACCTTCACGCTGTGGCTTTCTATGTCATGGATGAGGATGCC
CTCAGCCGGGACGACGTTATCGGAAAGGTCTGCCTTACAAGGGACACCATAGCCTCTCAC
CCTAAGGGTTTCAGCGGGTGGGCCACCTGACGGAGGTGACCCCGATGAGGAGGTGCAG
GGCGAGATCCACCTGCGGCTGGAAGTGTGGCCAGGGGCCGGGCTGCGGCTACGCTGC
TCTGTGCTGGAGGCCAGGGATCTGGCCCCAAAGGACCGCAATGGCACATCTGACCCCTTC
GTCCGAGTGCCTACAAGGGCCGGACACGGGAGACCTCGATCGTGAAGAAGTCATGCTAC
CCACGCTGGAATGAGACGTTTGAATTTGAGCTGCAGGAGGGGGCCATGGAGGCGCTGTGC
GTGGAGGCCTGGGACTGGGACCTTGTGAGCCGAAACGACTTCCTGGGCAAAGTGGTGATT
GATGTCCAGAGACTGCGGGTGGTGCAGCAGGAGGAGGGCTGGTTCCGGCTGCAGCCCGAC
CAGTCCAAGAGCCGGCGGCATGACGAGGGCAACCTGGGCTCCTTGAGCTGGAGGTGCGG
CTGCGGGACGAGACGGTGCTGCCCTCCAGCTACTACCAGCCACTGGTGACCTGCTGTGC
CACGAGGTCAAGCTGGGCATGCAGGGCCAGGGCAGCTGATCCCACTCATCGAGGAGACA
ACCAGCACCGAGTGTGCGCCAGGACGTGGCCACGAACCTGCTCAAGCTCTTCTGGGGCAG
GGGCTGGCCAAGGACTTCCTGGACCTGCTCTTCCAGCTGGAGCTGAGTCGCACCAAGTGAG
ACCAACACCCTGTTCCGGAGCAACTCTCTGGCCTCAAAGTCCATGGAGTCTTTTCTGAAG
GTGGCCGGGATGCAGTACCTGCACGGCGTCTGGGCCCCATCATCAACAAGGTGTTTGAAG
GAGAAGAAGTACGTGGAGCTGGACCCAGCAAAGTGAAGTTAAGGATGTAGGGTGCTCC
GGGCTGCACCGCCCGCAGACCGAGGCGGAGGTGCTGGAGCAGAGCGCGCAGACGCTGCGC
GCCACCTGGGGGCCCTGCTGAGCGCGCTCAGCCGCTCGGTTTCGCGCGTGCCCCGCCGTG
GTGCGCGCCACCTTCCGCCAGCTCTTCCGGCGCGTGCGCGAGCGCTTCCCCGGCGCCAG
CACGAGAATGTACCGTTTCATCGCCGTACCAGCTTCCTGTGCCTGCGCTTCTTCTCTCCC
GCCATCATGTGCGCCAAAGCTCTTCCACCTGCGGGAGCGCCACGCGGACGCCCCGACCCAGC
CGCACCTGCTCCTGTTGGCCAAGGCAGTCCAGAACGTGGGCAACATGGACACGCCGGCT
TCCAGGGCCAAGGAGGCTTGATGGAGCCGCTGCAGCCACCGTGCGCCAGGGCGTGGCG
CAGCTGAAGGACTTCATACCAAGCTCGTGGACATCGAGGAGAAGGACGAGCTGGACCTG
CAGCGGACGCTGAGTTTGAGGCGCCACCTGTGAAGGAGGGGCCACTTTCATCCACAGG
ACCAAGGGCAAGGGCCCCCTCATGTCTCTCTCTTCAAGAAGCTCTACTTCTCCCTCACT
ACCGAGGCCCTCAGCTTCGCGAAGACGCCAGCTCCAAGAAAAGCGCCCTCATCAAGTTA
GCCAACATCCGGGCAGCGGAAAAGGTTGAGGAAAAGAGCTTTGGCGGCTCGCACGTGATG
CAGGTATCTACACGGACGACGCCGGCAGGCCCCAGACTGCCTACCTGCAGTGCAAGTGT
GTGAATGAGCTTAACAGTGGCTGTCTGCGCTGCGGAAGGTGAGCATCAACAACACCGGA
CTGCTGGGCTCCTACCACCTGGCGTCTTCCGTGGGGACAAGTGGAGCTGCTGCCACCAA
AAAGAGAAGACAGGTGAGGGCTGCGATAAGACCCGGTCACGGGTGACCTGCAGGAGTGG
AATGACCTCTTGACCATGACCTTGAGGCCAGCTCATCTGCCGGCACCTGCTGGGCGTG
GAGGCCATGCTGTGGGAGAGGCACCGGGAGCTGAGCGGGGGCGCAGAGGCAGGCACGGTG

FIGURE 1 (CONT'D)

CCCACGAGCCCTGGCAAAGTCCCCGAGGACTCATTGGCCCCGGCTGCTCCGGGTGCTGCAG
GACCTCCGCGAGGCCCATAGCTCCAGCCCGGCCGGCTCCCCACCCTCAGAGCCCAACTGC
CTCCTGGAGCTGCAGACGTGA

Gene 678. >OTTHUMT00007007215 cDNA sequence

GTCGCCCTCCGTCTGGTCTGGCGTGATTCCGAGCGTTGGTGTCTGGCGGTTTCCGAGC
GTTGGTGTCTGGCGGTTTCCGACCGTTGGTGTCTGGCGGTTTCCGACCGTTGGTGTCTGG
CACGCGCCACCCTCTCTTGCTTTGGTTGCGCCATGCCGATGTACCAGACAAGAAGACAAG
AAAATGATTTGAGGACAGCTTCAATCGCGGTGTGAAGAAGAAAGCAGCAAAACGACCACT
GAAAACAACGCCGGTGGCAAAATATCAAAGAAAGGGTCCAAGCGGTACATCGTCATAG
CCGGAACAGTCAGAGCCACCAGCCAATGATATTTTCAATGCTGCGAAAGCTGCCAAAAG
TGACATGCAGCACCGAGAAGTCCGCGTGAAGTGCCTGAAGGCTCTGAAAGGGCTGTACGG
TAACCGGGACCTGACCGCACGCCTGGAGCTCTTCACTGGCCGCTTCAAGGACTGGATGGT
TTCATGATCGTGGACAGAGAGTACAGTGTGGCAGTGGAGGCCGTGAGATTACTGATACT
TATCCTTAAGAACATGGAAGGGGTGCTGATGGACGTGGACTGTGAGAGCGTCTACCCCAT
TGTGTAGGCCTCTAATTGAGGCCTGGCCTCTGCTGTGGGTGAATTTCTGTACTGGAACT
TTTCTACCCTGAGTGCGAGATAAGAACGATGGGTGGAAGAGAGCAACGCCAGAGCCAGG
CGCCAGAGGACTTTCTTCAGCTTCTGCTGTCTTCTTTGTGGAGAGCAAGCTCCACGA
CCACGCTGCTTACTTAGTAGACAACCTGTGGGACTGTGCAGGGACTCAGCTGAAGGACTG
GGAGGGTCTGACAAGCCTGCTGCTGGAGAAGGACCAGAGCACGTGCCACATGGAGCCAGG
GCCAGGGACCTTCCACCTCCTAGGGTGAAACCAGGAGAGATTGCTTGCTTCACTTGTA
AGGCAGGAACGGTGGCATGGCGTGGGGGAACTTGGAGTTGGAAGGTGGCTAATCTTTGA
TTCTATGTTTTTGTATCCTCCTGGCACTCCAGACCTGGGTGATATGCAGGAGAGCACACTG
ATAGAAATCCTTGTGTCCAGTGCCAGCAACTCCTGCCTCAGCCTCCCGAGCAGCTGGGA
CTACAGGTGCCCGCCACCACGCCCGTCTCTACTAAAAACACAAAAAATTAGCCGGGCGTG
GTGGCGCATGCCTGTAATCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACC
TAGGAGGCAGAGGTTGCAGTGAGCTGAGATCGCACCCTGCACCACAGCCTGGGCAATAA
GAGTGAAACTCCATCTCAAAAAAAAAAAAAAAAAA

Gene 679. >OTTHUMT00007007218 cDNA sequence

CAGTGTGGCAGTGGAGGCCGTGAGATTACTGATACTTATCCTTAAGAACATGGAAGGGGT
GCTGATGGACGTGGACTGTGAGAGCGTCTACCCCATTTGTGTAGGCCTCTAATTGAGGCCT
GGCCTCTGCTGTGGGTGAATTTCTGTACTGGAACTTTTCTACCCTGAGTGCGAGATAAG
AACGATGGGTGGAAGAGAGCAACGCCAGAGCCAGGTGCCAGAGGACTTTCTTCCAGCT
TCTGCTGTCTTCTTTGTGGAGAGCAAGCTCCACGACCAGCTGCTTACTTAGTAGACAA
CCTGTGGGACTGTGCAGGGACTCAGCTGAAGGACTGGGAGGGTCTGACAAGCCTGCTGCT
GGAGAAGGACCAGAGCACGTGCCACATGGAGCCAGGGCCAGGGACCTTCCACCTCCTAGG
GTGAAACAGGAGAGATTGCTTGCTTCACTTGTAACAAGAATCGGCTCCAGACACCTGCC
ACTCGTGAATGCATCTGATAAACTCACTCACACTGAGGCCTTGGGGACTGAGGCCCTGGC
GGATCACGGGTGCCAGGGGCTCGGAGGCCGCTCCTCTGGGAAGCCTGCCAGGTTCCG
ATGGACTCCACAGGCAATACCCCTGGGCCTTCTCCTCGCGGCCCTGTTGGCCCAATTCC
CCCACCCCTGCAAGGTCTGTGCCTCTCCTGCAGCCCCGCCACCAACTAGGGCGAGAGGA
GCTCGCCCCCACCACAAACGTATTGGTTTCGATGAAGGAAGGGCCCATGGTTCTGCACTGG
CCCTGGACACCCAGTGCTGGTTTCCCGTGAAGTCCCCCTGGACTGAGTGGCGGGCTGGGT
GCTCTAGTGATTTGCGACCTGGGGCCTCTGACTCCCATCATGTTGGGAAAGTCGTTGAAC
CTCACCGGTGAAACGGGCACAGTGAAGTCATTTCCCGAAGTCTCAGGACTCTGTGTAAG
GCTGGGGACAGGGGCTTGTGGGGCCTAAGGGCACCTTGGGAAGTGCAGGAGCCCGTTCT
GCCTCCATAAGACACTCACTCCTGGCAGGGTCCCCCTCTCCGGGCAAGCCAGATCCACC
CCCATCATCCCTCTCATCTGTGGCTCCCTGCCCTCACAGAGGATTCACTCACTCTGTTT
AGAATCCCAGGACTCCCTAGGGAAGGAGGTCCAGCCTGGCCTCCCAAGACCGTGCTTG
CCCAATTCCAGGACTTCTCATATGGCTCCTACCTCCAGCACAGAAGCGGCACTAAACCA
GGTGGTCAATCAGGGAGCACACCGAGGTTCTGAATGGTCAGGGATGAGCAGTGATGCC
TCAAGCTAAGCCAATCAAAGCCTTCCCTGGGATTGTCTCAAGGAGTCCGAGTGAGATT
TGGGTCTCAGTACTGGGAAAGGGTGAAGGCTGAGGCTGCCTGCTGTCTGGGGGCCTCACC
CTGCCACCAACAGGAAGCCACACAGAGGGAAGCAGAAATGAGACGCAGCCAGTGAGGGCA
GGGTACAAAGGTGAGATCCCGAGAGACAGATGCTGGGACATCATCCTTGGGTACTGGTT

FIGURE 1 (CONT'D)

CCAACAGTGCCTGCAGATGGAGCCACCTCGGAGAGTCCACAAAGCAGCCAATCCATTCTATGCGTGTCTGAGCTACTTTAAGTCGGGTTTTTGACTGTTTGAATGAGAGTCTCATCTTGGCTAGGCACCATGGCGCAACAACTGGGGAGGTGGAGGTAGGAAGATTGCTTGAGGCCAAGAGTCCCAGAGCAGCCTGGGCAACCTATCAAGACGCTGTCTTTACGAAAAGAAAAAAAC TAGCTAGGTGTGGTGGTGCCTGTGGTCCCAGCTACTGGGGAGGCTGAGGTGGGAGGATTGCTTGAGCCCAGGAAGTGGAGGCTGCAGTGACCTATGATGGCACCCTGTACTCCAGCCTGGGTGACAGAGCAAGACCCTGTCTAAAAA

Gene 680. >OTTHUMT00007006277 cDNA sequence

ATGGGGGAAGCGCGTTAAACCAGGGAGTCTGGAAGGGGACGACGCCCCCGGCCAGTCCCTGTACGAGCGGTTAAGTCAGAGGATGCTGGACATCTCGGGGACCGGGGCGTGCTGAAGGACGTCATCCGAGAAGGAGCTGGAGACCTAGTGGCGCTGATGCTTCGGTGCTAAAATAC TATGGATACCTGGAACACTTGGACAGACCCCTTCGATTCTAATTACTTTAGGAAAACCTCTCGGCTAATGAAACTTGGAGAGATTACATTGTGGGGCATGGAGCTGGGCCTTCTGAGCATG CAGAGAGGAGAGCTGGCCAGGTTTCTGTTCAAACCGAACTACGCCTATGGAACGCTGGGC TCCCCTCCCTTGATCCCCCAACACCACTGTCTGTTCAGATTGAGCTGCTTGACTTC CTAGACTGTGCTGAGTCAGACAAGTTTTGTGCTCTCTCAGCT

Gene 681. >OTTHUMT00007007220 cDNA sequence

CAGTGTGGCAGTGGAGGCCGTGAGATTACTGATACTTATCCTTAAGAACATGGAAGGGGTGCTGATGGACGTGGACTGTGAGAGCGTCTACCCATTGTGTAGGCCTCTAATTGAGGCCTGGCCTCTGCTGTGGGTGAATTTCTGTACTGGAACTTTTCTACCTGAGTGCAGATAAG AACGATGGGTGGAAGAGAGCAACGCCAGAGCCAGGTGCCAGAGGACTTTCTTCCAGCT TCTGCTGTCTTCTTTGTGGAGAGCAAGCTCCACGACCACGCTGCTTACTTAGTAGACAA CCTGTGGGACTGTGCAGGGACTCAGCTGAAGGACTGGGAGGGTCTGACAAGCCTGCTGCT GGAGAAGGACCAGAGCACGTGCCACATGGAGCCAGGGCCAGGGACCTTCCACCTCCTAGG GTGAAACCAGGAGAGATTGCTTGCTTCACTTGTACAAGAATCGGCTCCAGACACCTGCC ACTCGTGAATGCATCTGATAAACTCACTCACACTGAGGCCTTGGGGACTGAGGCCCTGGC GGATCACGGGTGCCAGGGGCTCGGAGGCCGCTCCTCTGGGAAGCCTGCCAGGTTCCG CTGGACTCCACAGGCAATACCCCTGGGCCTTCTCGCGGCCCTGTTGGCCCAATTCC CCCACCCCTGCAAGGTCTGTGCCTCTCCTGCAGCCCCGCCACCACTAGGGCGAGAGGA GCTCGCCCCACCCAAACGTATTGGTTCGATGAAGGAAGGGCCCATGGTTCTGCCACTGG CCCTGGACACCCAGTGCTGGTTTCCCGTGAAGTCCCCCTGGA CTGAGTGGCGGCTGGGTGCTCTAGTGATTTGCGACCTGGGGCCTCTGACTCCCATCATGTTGGGAAAGTCGTTGAAC CTCACCGGTGAAACGGGCACAGTGAAGTCAATTTCCCGAAGTCTCAGGACTCTGTGTAAG GCTGGGGACAGGGGCTTGTGGGGCCTAAGGGCACCTTGGGAACTGCAGGAGCCCGTTCT GCCTCCATAAGACACTCACTCCTGGCAGGGTCCCTCTCGGGCACAGCCAGATCCACC CCCATCATCCCTCTCCATCTGTGGCTCCCTGCCCTCACAGAGGATTCACTCTGTTT CAGAATCCCCAGGACTCCCTAGGGAAGGAGGTCCAGCCTGGCCTCCCAAGACCGTGCTTG CCCAATTCCAGGACTTCTCTCATATGGCTCCTACCTCCAGCACAGAAGCGGCACTAAACCA GGTGGTCAATCAGGGAGCACCAACCGAGGTTCTGAATGGTCCAGGGATGAGCAGTGATGCC TCAAGCTAAGCCAATCAAAGCCTTCCCTGGGATTGTCTCAAGGAGTCCGAGTGAGATTCTGGGTCTCAGTACTGGGAAAGGGTGAGGCTGAGGCTGCCTGCTGCTGGGGGCTCACC CTGCCACCAACAGGAAGCCACAGAGGGAAGCAGAAATGAGACGCAGCCAGTGAGGGCA GGGTACAAAGGTGAGATCCCGGAGAGACAGATGCTGGGACATCATCCTTGGGTACTGGTT CCAACAGTGCCTGCAGATGGAGCCACCTCGGAGAGTCCACAAAGCAGCCAATCCATTCTATGCGTGTCTGAGCTACTTTAAGTCGGGTTTTTGACTGTTTGAATGAGAGTCTCATCTT GGCTAGGCACCATGGCGCAACAACTGGGGAGGTGGAGGTAGGAAGATTGCTTGAGGCCAAGAGTCCCAGAGCAGCCTGGGCAACCTATCAAGACGCTGTCTTTACGAAAAGAAAAAAAC TAGCTAGGTGTGGTGGTGCCTGTGGTCCCAGCTACTGGGGAGGCTGAGGTGGGAGGATTGCTTGAGCCCAGGAAGTGGAGGCTGCAGTGACCTATGATGGCACCCTGTACTCCAGCCTGGGTGACAGAGCAAGACCCTGTCTAAAAA

Gene 682. >OTTHUMT00007007226 cDNA sequence

ATGGCCAGGAGGAGGGTGGGAGCCTGCCCGAGGTGCGGGCGGGGTGAGGGCCGCGCATGGCATCCCCGACCTGGCCCAAAGCTCCATTTCTATGACCGCTGGGCTCCGGACTACGAC CAGGATGTGGCCACCCTGCTGTACCGTGCGCCCGCCTCGCAGTGGACTGCCTCACACAA

FIGURE 1 (CONT'D)

GCCCTTCCAGGCCCGCCCCACAGTGCCCTGATCCTGGACGTGGCCTGTGGCACAGGCCTA
GTGGCTGCCGAGCTGCGGGCTCCAGGCTTCCTCCAGCTGCATGGGGTGGATGGGAGCCCA
GGGATGCTGGAACAGGCCAGGCCCCGGCCTCTATCAGCGCCTCAGCCTCTGCACCTG
GGCCAGGAGCCTCTGCCAGCCCGGAAACCTTCGACGCGGTGCTGATAGTCGGTGCCCTC
AGTGACGGCCAGGTGCCCTGCAATGCGATACCTGAGCTACATGTACCAAGCCATGCCTT
TGGAGCATCTCTTTCTCTTTCTGGTCTCAGTCTTCTCATCTGGGAAATGGGGCTGCTCA
GGGGAGATGAGAGCTGTGAGCACCGTTTGTAACTTTGCACATTGCGCTGCCCGGGCTGG
GCTGGTGTGTCTGACCACCAGGACCAACTCGTCCAACCTTCAATAACAAGGAGGCTCTGGA
GGCCACCCTGGACAGGCTGGAGCAGGCTGGGATGTGGGAAGGCCTGGTGGCCTGGCCTGT
GGACCGCTGTGGACCGCTGGGAGCTGGCTACCTCCGAGCTGGAGGTGGTATCCGGCATC
TCTGCCAAGGATGGCTTCATCTCCGGCATTGTCTACCTGTACCGAAAGTGAAGGCGACC
CAGGTTGAGGAAGTGAGATCCAGCCCCCAGCCCCAGCTGGCCCCCTGA

Gene 683. >OTTHUMT00007007227 cDNA sequence

ATGTGGGGCAGCACCAAGGGCCTGGGCCTGGCCTTGCTCAGTGCCTGGGAGCAGCTGGGC
CTGTCTGTGGCCATCTGGACAGATCTGTTTTTGTCTATGTCTGCACGGCCTGATGTTGGTG
GCCTTGCTCTTGGTGGTAGTGACCTGGAGGGTGTGTGAGAAGTCCCACTGCTTCCGACTG
GGCAGGCAGCTCAGTAAGGCCTTGCAAGTGAAGTGCCTGCTGTCTGACCTGCTAGAGGAC
CTACAGAGACAGAATGAGCAGAAAGCACCTGGGGCCGTTGGCATCATCCTTGGACCATC
CTGATGGACCTTCCCATCTCATCCATCCGACGCCCGCTGCTGGAAATGGGAAGCTGACA
TGTCCCAAAGGTCGATGCACTGGAATGCCCGAGGTCATCCTCTGGGAGTGTCCACATAT
TTGTGA

Gene 684. >OTTHUMT00007006280 cDNA sequence

ATGTCTCCGGCGGCTGCGGCGGCTGGAGCAGGCGAGCGGCGGCGGCGGATAGCGAGTGTC
AGGGACGGCCGGGGCGGGGCTGCGGCGGGCCGGCCGGGGCGGCGCTTCTCGGCCTGTCTG
CTGGTGGCCTCCTACTGTACCTCGTGCCTGCTGCGGCTGCGCTGGCCTGGCTGGCCGTG
GGGACTACCGCGCCTGGTGGGGACTGAGCCGCGAGCCCCGAGGTTGCGCCCCCTTGTCC
TCCTTTCGTTTCAAGGCGCGACATCGGCGAACAAGTTCGCTTTCGCTTCCGGCCAAGTCG
ACAGCCAACGGAAACCTCCTAGAGCCGCGGACCTGCTCGAAGGACCTGACCTGCCGAA
CTGCTCCTCATGGGCAGTTACCTGGGCAAGCCGGGGCCGCGCAGCCCCGCCCCGCTCCG
GAGGGCCAGGACCTGCGGAATAGGCCTGGCCGCCGCCACCCGCCCGCCGGCGCCGCGC
TCCACACCGCCCTCCCCGCCGACCCATCGCGTTTCAACACTTTTACCCCTCTCTCCCCACT
CCTCTTCTCCGACCCTCCGGGAGGCCTTCCCAGATCGTGGGACTTTACCAGATCGGTTT
GTAATAACACCTCGAAGACGCTATCCGATCCATCAGACCCAGTATTCTGTCCGGGGGTA
CTTCCCACAGTGTGCTGGAATGGTTATCACAAGAAGGCTGTGCTGTCCCTCGCAACTCC
AGGATGGTGTGTAGCCAGTGACTGTGAGGATCGCCCCCTCTGACAGAAGATTTTACGT
TCTGCGCCAGAGCAGATAATCAGCTCAACAAGTGTCTGTCACCATCAAGTAATGCCCCAGAC
CCATGTGCAAAGGAGACTGTACTGAGTGCCCTCAAAGAGAAGAAGAAGAAAAGGACAGTG
GAGGAAGAAGACCAATATTCCTTGATGGCCAGGAAAATAAAAGACGCCATGATAGCAGT
GGCAGTGGACATTGAGCATTTGAGCCCCCTGGTGGCCAGTGGAGTCCCGCTTCTTTTGTG
CCTCCTGGGTCTCTGAAGAGAGGCCTCAATTCTCAGAGCTCAGATGACCACTTGAATAAG
AGATCCCGAAGCTCTTCCATGAGCTCCTTGACAGGCGCTTACACAAGTGGCATCCCTAGC
TCCAGCCGCAATGCCATTACAGTTTCTACAGCTCCACTCGAGGCATCTCACAGCCCAGC
CTCATCCCGCTCCCAGACACCGGAGAGGCCAGCAAAGAAAATAAGGTATTTCGGCATTCTC
CTGCAGTTTTTCATTTGCTACGTGGACAGAAGGGGGTGAAGGAAGAAGAGCTGTGTAT
CATTCAGTTTCTTCAACTCCATTGGCAGCAGACAAGGAGTCCAGGGAGAAAAGGCAGAT
ACAACCCCAAGGAAGAAAACAACTCGAATTCTCAGTCTACACCTGGCAGCTCTGGGCAG
CGTAAGCGGAAAGTTGAGCTGCTGCCTTCTCGGCGAGGGGAACAGCTGACCTTGCCCTCCA
CCTCCCCAGCTTGGCTATTGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCA
TTACAGTGGTTCAACAGGCCTTGGAGGACAAGAGTGTGCTCGAACTCTGTCACTGAG
ACCCACCTACCACTCAGCCTTCATTTACCTTTACCCTGCCTGCTGCTGCAACTGCCTCC
CCACCCACCTCCCTCCTGGCCCCAAGCACCAACCCACTGTTAGAGAGCTTGAAGAAGATG
CAGACTCCCCCGAGCCTGCCACCTGCCCATCTGCTGGAGCAGCAACCACTGAGGCCCTC
TCACCTCCAAAGACACCCAGCCTCCTACCCCGCTGGGTTTATCACAGTCAGGGCCGCCA
GGGCTGCTCCCCAGCCCCTCCTTTGACTCCAAACCCCCGACCACTTTGCTGGGGCTGATC

FIGURE 1 (CONT'D)

CCTGCTCCATCCATGGTACCAGCCACTGACACCAAGGCACCTCCAAACCTTCAAGCAGAG
ACGGCTACCAAACCCCAAGCCACATCTGCCCCGTCCCCCGCCCCAAGCAAAGCTTCCTG
TTTGGAACACAGAACACCTCACCTTCCAGCCCTGCCGCCCTGCTGCATCTTCAGCATCT
CCCATGTTCAAGCCATTTCACGGCTCCACCCAAGAGTGAGAAGGAAGGCCCCACACCG
CCTGGCCCTTCAGTCACAGCCACAGCGCCCTCCAGCTCCTCCCTCCACGACCACCAGC
ACCACAGCCCCGACCTTCCAGCCTGTCTTTAGCAGCATGGGGCCACCTGCATCTGTGCCC
TTGCCTGCTCCCTTCTTCAAGCAGACAATACTACTCCCGCCACTGCTCCACCACTGACC
CCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTGGCTCCCATCACCTCTGCCAGT
CCATCCACAGACTCTGCTTCAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTGAGCAGC
AGCAGTGTGAGTACCACGACCAGCACCGCCACTGCCGCTCACAGCCTTTCCTCTTCGGG
GCGCCCCAGGCCTCTGCTGCCAGCTTCACCCCGGCCATGGGCTCCATATTCCAGTTTGGC
AAACCTCCTGCCTTGGCCACAACCACCACAGTCACCACCTTCAGCCAGTCCCTGCCCACT
GCCGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTTAGTGGTTTGGCAGCACCTC
GCCACCTCCGCCCCGGCCACCAGCAGCCAGCCCACTCTGACGTTAGTAACACGAGCACC
CCACGTTCAACATTCCCTTTGGCTCAAGCGCCAAGTCCCGCTCCCATCATATCCGGGA
GCCAACCCCCAGCCCGCATTTGGGGCCGCTGAGGGGAGCCACCGGGGGCCGCAAGCCA
GCCCTTACCCCCAGCTTTGGCAGCTCTTCACTTTTGGAACTCTGCAGCCCCGGCCCCG
GCTACTGCACCCACACCTGCACCTGCGTCCACGATCAAGATCGTGCCTGCGCAGTGCCT
ACGCCCATCCAGCCTACCTTTGGCGGTGCCACGCACTCGGCGTTTGGATTGAAAGCCACG
GCTTCCGCCTTCGGCGCTCCCGCCAGCTCACAGCCCGCCTTTGGCGGCTCCACTGCTGTC
TTCTCCTTCGGTGCAGCCACCAGCTCCGGCTTTGGAGCCACCACCAGACCGCCAGCAGC
GGGAGCAGCAGCTCGGTGTTTGGCAGCACAAACACCATCACCTTCACGTTTGGGGTTTCG
GCAGCCCCCGCTGGCAGTGGGAGCTTTGGGATCAACGTGGCCACCCAGGCTCCAGCGCC
ACCAACGGAGCTTTAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCCACCCCC
TTCAAGGGGGCTTAGGTGAGAACGCCCTGGGCACCACCGCCAGAGCACACCGTTTGCC
TTCAACGTGGGCAGCACAACTGAGAGCAAACCTGTGTTTGAACCGCCACCCACCTTT
GGTCAGAACACCCCTGCGCCTGGAGTGGGCACATCGGGCAGCAGCTCTCCTTTGGGGCA
TCTTCAGCACCCGCCCAAGGCTTTGTTGGTGTGGACCGTTCTCGGCGGCCCTTCATTT
TCCATTGGTGCGGGATCCAAGACCCCAGGGGCTCGACAGCGACTGCAGGCCCAAGGCAG
CACACCCGCAAAAAGTAG

Gene 685. >OTTHUMT00007006283 cDNA sequence

ATGGCCATACTGCCCAAAGTAATTTATAGATTCAATGCCATCCCCATCAAGCTACCAATG
ACTTTCTTACAGAATTGGAAAAAATACTTTAAAGTTCATATGGAACCAAAAAAGAGCC
CGCATTGCCAAGACAATCCTAAGCCAAAAGAACAAAGATGGAGGCATCACACTACCTGAC
TTCAAATATACTACAAGGCTACAGTAACCAAAACAGCACTGAGGGCTTTATCTGTTTGT
CCAGAAGCCAGGGAGGATGTGGATGGAGAGCAGCAGTGAAGCGTCAGAAGGTAAGAGGC
CAGACACGCTGCAGGCCAGAAACGGCCCCGCAAGTGGCTCCAGGTAGCACAGTTTGAACC
AGCAGATCCAATCCCTTCATTTTACAGAAAAAGAAACCCACAGAAGGTGAAAAAATGGGG
AAACGTGACAAAATTACAGTGTGATGCATCCAGCCTGGGCCAGAAACAAAAGAGGCCTG
GAGAGAATGTGAGGGGCGTGGTGTAGAAGTCGAACCTTGCTTGGTAGAGGCGGTGGCTTT
GAGGACCTTGGCGATGGAGAGGGTGTGTACACTGTTAAGGGCCCATCTGGGAAACCGCAG
CCTGTGGAGATGTTGGGGACAAAGCCTTTTTTGTCTTTGCCACCGGAAAAGAAACAATT
ATTGAACACATACTACATGTGAGGTACATCTTGGCAGCCTATGAATACAACCTGCAAGCAG
CGACCTGGAAAATCTTGGTCTTGTCCAGCATATGCAAAGGGCAGGAATTCCGTGAGGAGC
TCTTTGCATGAGAACTGAATGCAAATCCTCCAGCCCTTCCATCCTTGCCGAAGCAAGA
AGGGAGGAAGAGCCAAACATTGCCACTCACTTGGGTCTCCTTCAAACCTCCATGAAGGAC
ATCTCATCAGCTCCATTTGGCACTGCCCTTTCATGGGCAGGCTTTCACTCCAGACCAGT
TATGGCCACGGCTCAAATCTGTTTCACTGCTGATACACCAGGTTCCTCTTACCACAGG
ACCTTTGCACTGTCTACACTGCCTGGAATGTTGAGGCTGCAAGAAAACATGTGA

Gene 686. >OTTHUMT00007006288 cDNA sequence

ATGGCGGGTCTGACGGCGGCGGCCCGCGGCCCGGAGTCCTCCTGCTCCTGCTGTCCATC
CTCCACCCCTCTCGGCCTGGAGGGGTCCCTGGGGCCATTCTGGTGGAGTTCTGGAGGA
GTCTTTTATCCAGGGGCTGGTCTCGGAGCCCTTGGAGGAGGAGCGCTGGGGCCTGGAGGC
AAACCTCTTAAGCCAGTTCCTCGGAGGGCTTGCGGGTGTGGCCTTGGGGCAGGGCTCGG

FIGURE 1 (CONT'D)

GCCTTCCCCGAGTTACCTTTCCGGGGGCTCTGGTGCCTGGTGGAGTGGCTGACGCTGCT
GCAGCCTATAAAGCTGCTAAGGCTGGCGCTGGGCTTGGTGGTGTCCAGGAGTTGGTGGC
TTAGGAGTGTCTGCAGGTGCGGTGGTTCTCAGCCTGGAGCCGGAGTGAAGCCTGGGAAA
GTGCCGGGTGTGGGGCTGCCAGGTGTATACCCAGGTGGCGTGCTCCAGGAGCTCGGTTCC
CCCGGTGTGGGGGTGCTCCCTGGAGTTCCCACTGGAGCAGGAGTTAAGCCCAAGGCTCCA
GGTGTAGGTGGAGCTTTTGTGGAATCCAGGAGTTGGACCCTTTGGGGGACCGCAACCT
GGAGTCCCACTGGGGTATCCCATCAAGGCCCCCAAGCTGCCTGGTGGCTATGGACTGCCC
TACACCACAGGGAACTGCCCTATGGCTATGGGCCCCGAGGAGTGGCTGGTGCAGCGGGC
AAGGCTGGTTACCCAACAGGGACAGGGGTGGCCCCCAGGCAGCAGCAGCAGCGGCAGCT
AAAGCAGCAGCAAAGTTTCGGTGCTGGAGCAGCCGGAGTCTCCCTGGTGTGGAGGGGCT
GGTGTTCCTGGCGTGCTGGGGCAATTCTTGAATTGGAGGCATCGCAGGCGTTGGGACT
CCAGCTGCAGCTGCAGCTGCAGCAGCAGCCGCTAAGGCAGCCAAGTATGGAGCTGCTGCA
GGCTTAGTGCTGGTGGGCCAGGCTTTGGCCCCGGAGTAGTTGGTGTCCAGGAGCTGGC
GTTCCAGGTGTTGGTGTCCAGGAGCTGGGATTCCAGTTGTCCAGGTGCTGGGATCCCA
GGTGCTGCGGTTCCAGGGTTGTGTCAACAGAAGCAGCTGCTAAGGCAGCTGCAAAGGCA
GCCAAATACGGGGCCAGGCCCGGAGTCGGAGTTGGAGGCATTCTACTTACGGGGTTGGA
GCTGGGGGCTTTCCCGCTTTGGTGTGCGAGTCGGAGGTATCCCTGGAGTCGAGGTGTC
CCTGGTGTGCGAGGTGTTCCCGGAGTCGGAGGTGTCCCGGAGTTGGCATTTCCTCCCGAA
GCTCAGGCAGCAGCTGCCGCCAAGGCTGCCAAGTACGGAGTGGGGACCCAGCAGCTGCA
GCTGCTAAAGCAGCCGCCAAAGCCGCCAGTTTGGGTTAGTTCTGGTGTGCGCGTGGCT
CCTGGAGTTGGCGTGGCTCCTGGTGTGCGGTGTGGCTCCTGGAGTTGGCTTGGCTCCTGGA
GTTGGCGTGGCTCCTGGAGTTGGTGTGGCTCCTGGCGTTGGCGTGGCTCCCGGCATTGGC
CCTGGTGGAGTTGCAGCTGCAGCAAATCCGCTGCCAAGGTGGCTGCCAAGCCAGCTC
CGAGCTGCAGCTGGGCTTGGTGTGGCATCCCTGGACTTGGAGTTGGTGTGCGCGTCCCT
GGACTTGGAGTTGGTGTGGTGTTCCTGGACTTGGAGTTGGTGTGGTGTTCCTGGCTTC
GGGGCAGGTGCAGATGAGGGAGTTAGGCGGAGCCTGTCCCCTGAGCTCAGGGAAGGAGAT
CCCTCCTCCTCTCAGCACCTCCCCAGCACCCCTCATCACCCAGGGTACCTGGAGCCCTG
GCTGCCGCTAAAGCAGCCAAATATGGAGCAGCAGTGCTGGGGTCTTGGAGGGCTCGGG
GCTCTCGGTGGAGTAGGCATCCAGGCGGTGTGGTGGGAGCCGACCCGCCGCCCGCT
GCCGCAGCCAAAGCTGCTGCCAAAGCCGCCAGTTTGGCCTAGTGGGAGCCGCTGGGCTC
GGAGGACTCGGAGTCGGAGGGCTTGGAGTTCCAGGTGTTGGGGGCTTGGAGGTATACCT
CCAGCTGCAGCCGCTAAAGCAGCTAAATACGGTGCTGCTGGCCTTGGAGGTGTCTAGGG
GGTGCCGGGCAGTTCCCACTTGGAGGAGTGGCAGCAAGACCTGGCTTCGGATTGTCTCCC
ATTTTCCAGGTGGGGCCTGCCTGGGGAAAGCTTGTGGCCGGAAGAGAAAATGA

Gene 687. >OTTHUMT00007006291 cDNA sequence

ATGGCTCAGAGGCTCAGGCAAGAGCTACAGATGCTCATGACCGAATGTCTCACCTGGGCC
CGGAATGGCAGCAGCAAGCACCTCTCAGCCTAGCCCAGAAGCCAGAGTTCTATTTTAT
CAGTTGCAAAGCAGAGACAATGCCATCTGCCCGATAGCAGAGCAAAAGGCAGCCCTGGG
GTAGATCCAGCCCCCACGTAGGTCCCTTGGCTGGAAAAGGAAGAGGGAATGTTTGGAT
GAATCTGATGATGAGCCAGAGAAGGAGCTCGCCCCCTGAGCCTGAGGAGACCTGGGTGGCG
GAGACGCTGTGTGGCCTCAAGATGAAGGCGAAGCGACGGCGAGTGTGCTCGTGTCTCCCT
GAGTACTACGAGGCCTTCAACAGGCTGCTTGGAGATCCTGTCAATTAAGACTCCTGGCC
TGGGACAAAGATCTGAGGGTGTGCGACAAGTATCTCCTGGCTATGGTATAGCGTATTTT
AGCCGGGCCCGGCTCCCTCCTGGCAATACCAACGCATTATTTCTTCTGGCTCTCTAT
CTGGCCAATGACATGGAGGAGGACGATGAGGCCCCCAACAAACATCTTCTACTTCTCTG
TACGAGGAGACCCGCTCTCATATACCTTGGCTCCGTGAGCTTTGGTTCCAGTTATGCCGT
TACATGAACCCGAGGGCCAGGAAGAACTGCTCTCAGATAGCCTTGTTCGGAAGTATCGG
TTCCACTTCTTTTGTTCATGCGCTGCAGGGCTTGGGTTTCCCTGGAGGAGTTGGAAGAG
ATCCAGGCTTATGACCCAGAGCACTGGAACACCGGACCCAGGGGAGATGTGGATTTTTCAG
CAGGAACCTTTATTCCAATGCTAATGGCAGACATCAGGAAGGAGGAGGAACCATTTGTG
CAGATCATCTAG

Gene 688. >OTTHUMT00007007252 cDNA sequence

ATGTTGTCCAGGCTGGCCTTGAACCTCTGGGTTCAAGCAATCCTCCTGCCGTGGCCTCCC
AAAGTGCTGGGATTACAGCCCCGGCGCCGGCTCCTTTAAGAGCGGGAGGGGCGCCCCC

FIGURE 1 (CONT'D)

TGGCGGCGGAGCGGTGCGTGCGGCCGGAGCCGGAGCGGATCCTGGAGCCGGAGCGGAGCG
GAGCGGAGCGGAGCCGGGGCGGAGCGGGCCGAGCGGGCCGAGCCAGCAGCCGAGCTGGGG
GCGCGGGCGGGCGGCATGTACCGGGCCCGGGCGGCGGGCGGGCCGGAGCCCGGCAGC
CCGGGGCGCTTTGGGATCCTCAGCACCGGGCAGCTCCGGGACCTGCTTCAGGATGAGCCC
AAGCTGGACCGGATCGTGCGGCTCAGCAGGAAGTTCCAGGGCCTGCAGCTGGAGCGTGAG
GCCTGCCTGGCCTCAACTACGCGCTGGCCAAGGAGAACCTGGCCCTGCGGCCCCGCTG
GAGATGGGCGGGCTGCCCTGGCCATCAAATACCAGGAGCTTCGTGAGGTGGCCGAGAAC
TGCGCGGACAAGCTGCAGCGACTGGAAAGCATGCATCGCTGGAGTCCCCACTGCGCGCTG
GGCTGGCTGCAGGCTGAGCTAGAAGAGGCGGAGCAGGAGGCAGAGGAGCAGATGGAGCAG
CTGCTGCTCGGGGAGCAAAGCCTGGAGGCCTTCCTGCCTGCCTTCAGCGTGGCCGCGCC
CTGGCCACCTGAGGCGGACGCAGGCAGAGAAGCTGCAGGAGCTGCTGCGGCGTCGGGAG
CGTTCTGCCAGCCGGCCCCCACCTCGGCTGCTGATCCCCCAAATCCTTCCCGGCTGCA
GCTGTCTGCCACTGGGGCCGCCCCGGGGGCCACCAGCAGTGGCCCGGAGCCTGCCCCC
TTGGACTCCCGCCAGTGGCCCCACTGAAGGGCTCCCCCGGGTGGCCCCCTCGGCCCGGCC
CCCCTGCTGAGCCCTCGGCCCTCGCAGCCAGAGCCCCCCCCACTTCACACTCAGTCCCGAA
CAGAAACACTTGAGCACCTACAATCTCACAGCCAACCTCCCTGCCAACGTCCAGTGACTCA
CAGTTAAGAGAGCTTCAGCAGCAGCTCTGA

Gene 689. >OTTHUMT00007007256 cDNA sequence

CTCGGCGGGGGCCCCGCTCCCAGGCCCGCTCCCGAGCCGTTCCGCTCCCGTCCGCTTCT
TCTCGCCTTCTCTCCGCGTGGCTCCTCCGTCCTCGGCGTCTCCAAAATGAATGAGCGAGC
GGCGCGTAGGGCGCGCGGCGGCGGCGGCGGCGGCGGCATGGAGCGCAGTGGCTGGGC
CCGGCAGACTTTCTCCTAGCGCTGTTGCTGGGGGCGACGCTGAGGGCGCGCGCGGCGGC
TGGCTATTACCCCCGCTTTTTCGCCCTTCTTTTTCTGTGCACCCACCACGGGGAGCTGGA
AGGGGATGGGGAGCAGGGCGAGGTGCTCATTTCCCTGCATATTGCGGGCAACCCACCTA
CTACGTTCCGGGACAAGAATACCATGTGACAATTTCAACAAGCACCTTTTTTTCAGCGCTT
GCTGGTGA CAGGACTATACACATCTACAAGTGTT CAGGCATCACAGAGCATTGGAGGTTT
CAGTGCTTTTCGATTTTGGGATCATGTCTGACCACAGTTTGGTAACAGTTTATGTGCAG
TGTGGTAGCCTCTCACGTGAGTCACCTGCCCACAACCAACCTCAGTTTTCATCTGGATTGC
TCCACCTGCGGGCAGAGGCTGTGTGAATTTTCATGGCTACAGCAACACACCGGGGCCAGGT
TATTTTCAAAGATGCTTTAGCCAGCAGTTGTGTGAACAAGGAGCTCCAACAGATGTCAC
TGTGCACCCACATCTAGCTGAAATACATAGTGACAGCATTATCCTGAGAGATGACTTTGA
CTCCTACCACCAACTGCAATTAAATCCAAATATATGGGTTGAATGTAACAACTGTGAGAC
TGGAGAACAGTGTGGCGCGATTATGCATGGCAATGCCGTACCTTCTGTGAACCATATGG
CCCACGAGAACTGATTACCACAGGCCTTAATACAACAACAGCTTCTGTCTCCAATTTTC
CATTGGGT CAGGTTTCATGTCGCTTTAGTTATTTCAGACCCCAGCATCATCGTGTTATATGC
CAAGAATAACTCTGCGGACTGGATT CAGCTAGAGAAAATTAGAGCCCCCTTCCAATGT CAG
CACAAATCATCCATATCCTCTACCTTCTGAGGACGCCAAAGGGGAGAATGTCCAATTTCA
GTGGAAGCAGGAAAATCTTCGTGTAGGTGAAGTGTATGAAGCCTGCTGGGCCTTAGATAA
CATCTTGATCATCAATTCAGCTCACAGACAAGTCGTTTTAGAAAGATAGTCTCGACCCAGT
GGACACAGGCAACTGGCTTTTCTTCCAGGAGCTACAGTTAAGCATAGCTGT CAGT CAGA
TGGGAACCTCATTATTTTCATGGAAATGAAGGCAGCGAGTTCAATTTTGCCACCACCAG
GGATGTAGATCTTTCCACAGAAGATATTCAAGAGCAATGGTCAGAAGAATTTGAGAGCCA
GCCTACAGGATGGGATGTCTTGGGAGCTGTCATTGGTACAGAATGTGGAACGATAGAATC
AGGCTTATCAATGGTCTTCTCAAAGATGGAGAGAGGAAATTATGCACTCCATCCATGGA
CACTACCGGTTATGGGAACCTGAGGTTTTACTTTGTGATGGGAGGAATTTGTGACCTGG
AAATTCTCATGAAAATGACATAATCCTGTATGCAAAAATTGAAGGAAGAAAAGAGCATAT
AACACTGGATACCCTTTCTATTCTCATATAAGGTTCCGTCTTTGGTTTTCTGTGGTCAT
CAATCCTGAACCTCAGACTCCTGCTACCAAATTTTGTCTCAGGCAAAAGAACCATCAAGG
ACATAATAGGAATGTCTGGGCTGTAGACTTTTTCCATGTCTTGCTGTTCTCCCTTCTAC
AATGTCTCACATGATACAGTTTTTCATCAATCTGGGATGTGGAACGCATCAGCCTGGTAA
CAGTGT CAGCTTGGAAATTTTCTACCAACCATGGGCGCTCCTGGTCCCTCCTT CACACTGA
ATGCTTACCTGAGATCTGTGCTGGACCCACCTCCCCCACAGCACTGTCTACTCCTCTGA
AAACTACAGTGGGTGGAACCGAATAACAATTCCCCTTCTTAACGCAGCACTAACCCGGAA
CACCAGGATTCTGCTGGAGACAAACAGGACCAATCCTTGGAAACATGTGGGCAATTGATAA

FIGURE 1 (CONT'D)

TGTTTATATTGGCCCGTCATGTCTCAAATTTCTGTTCTGGCAGAGGACAGTGCACTAGACA
TGGTTGCAAGTGTGACCCTGGATTTTCTGGCCAGCTTGTGAGATGGCATCCCAGACATT
CCCAATGTTTATTTCTGAAAGCTTTGGCAGTTCCAGGCTCTCCTCTTACCATAACTTTTA
CTCTATCCGTGGTGCTGAAGTCAGCTTTGGTTGTGGTGTCTTGGCCAGTGGAAGGCCCT
GGTTTTCAACAAAGATGGGCGGCGTCAGCTAATTACATCTTCTTGGCAGCTCACAATC
CAGGTTTCTCCAGTTCACTGAGACTGGGGAGCAAATCTGTTCTGAGCAGTGAGAGC
CCCTGATCAGCCTGGTGAAGGAGTTTTGTTGCATTATTCTTATGATAATGGGATAACTTG
GAAACTCCTGGAGCATTATTATATCTCAGCTATCATGAGCCAGAATAATCTCCGTAGA
ACTACCAGGTGATGCAAAGCAGTTTGAATTCAGTTGAGATGGTGGCAACCGTATCATTC
TTCCAGAGAGAAGATGTATGGGCTATTGATGAGATTATCATGACATCTGTGCTTTTCAA
CAGCATTAGTCTTGACTTTACCAATCTTGTGGAGGTCACTCAGTCTCTGGGATTCTACCT
TGGAAATGTTCAGCCATACTGTGGCCAGACTGGACCCTTTGTTTTACAGGAGATTCTAA
ACTTGCCTCAAGTATGCGCTATGTGAAACACAATCAATGCAGATAGGAGCATCCTATAT
GATTCAGTTGAGTTTGGTGTATGGGATGTGGCCAGAAATACACCCACACATGGACAACCA
GGTGAAGCTGGAGTACTCAACCAACCACGGCCTTACCTGGCACCTCGTCCAAGAAGAATG
CCTTCCAAGTATGCCAAGTTGTGAGGAATTTACATCAGCAAGTATTTACCATGCCAGTGA
GTTTTACACAGTGGAGGAGAGTATAGTGCTTCTTCCCCAGAAAACCTTGGTCCAGTGCTAC
CCGTTTTCCGCTGGAGCCAGAGCTATTACACAGCTCAAGACGAGTGGGCTTTGGACAGCAT
TTACATTGGGCAGCAGTGCCCCAACATGTGCAGTGGGCATGGCTCATGCGATCATGGCAT
ATGCAGGTGTGACCAGGGGTACCAAGGCACTGAATGCCACCCAGAAGCTGCCCTTCCGTC
CACAATTATGTGAGATTTTGAAGAACAGAATGGCTGGGAGTCTGACTGGCAAGAAGTTAT
TGGGGGAGAAATTGTAAAACAGAAACAAGGGTGTGGTGTCTCTCTTCTGGATCATCTCT
GTACTTCAGCAAGGCTGGGAAAAGACAGCTGGTGAGTTGGGACCTGGATACTTCTTGGGT
GGACTTTGTCCAGTTCTACATCCAGATAGGCGGAGAGAGTGCTTCATGCAACAAGCCTGA
CAGCAGAGAGGAGGGCGTCCTCCTTCAGTACAGCAACAATGGGGGCATCCAGTGGCACCT
GCTAGCAGAGATGTACTTTTTCAGACTTCAGCAAACCCAGATTTGTCTATCTGGAGCTTCC
AGCTGCTGCCAAGACCCCTTGCACCAGGTTCCGCTGGTGGCAGCCCGTGTCTCAGGGGA
GGACTATGACCAGTGGGCAGTCGATGACATCATCATTCTGTCCGAGAAGCAGAAGCAGAT
CATCCCAGTTATCAATCCAACCTTTACCTCAGAACTTTTATGAGAAGCCAGCTTTTGATTA
CCCTATGAATCAGATGAGTGTGTGGTTGATGTTGGCTAATGAAGGAATGGTTAAAAATGA
AACCTTCTGTGCTGCCACACCATCAGCAATGATATTTGGAAAATCAGATGGAGATCGATT
TGCAAGTAACTCGAGATTTGACCCTGAAACCTGGATATGTGCTACAGTTCAAGCTAAACAT
AGGTTGTGCCAATCAATTCAGCAGTACTGCTCCAGTTCTTCTTCAGTACTCTCATGATGC
TGGTATGTCTGTTTCTGGTGAAAGAAGGCTGTTACCCGGCTTCTGCAGGCAAAGGATG
CGAAGGAACTCCAGAGAACTAAGTGAGCCACCATGTATCACAAGGGGACTTTGAAGA
ATGGACAAGAATCACCATTGTTATTCCAAGGTCTCTTGATCCAGCAAGACCAGATCCG
ATGGATCCAGGAGAGCAGCTCACAGAAAAACGTGCCTCCATTTGGTTTTAGATGGAGTGTA
CATATCCGAGCCTTGTCCAGTTACTGCAGTGGCCATGGGGACTGCATTTCAGGAGTGTG
TTTCTGTGACCTGGGATATACTGCTGCACAAGGAACCTGTGTGTCAAATGTCCCAATCA
CAATGAGATGTTGATAGGTTTTGAGGGGAAGCTCAGCCCTCTGTGGTACAAGATAACAGG
TGCCAGGTTGGAACCTGGCTGTGGAACACTTAACGATGGCAAATCTCTCTACTTCAATGG
CCCTGGGAAAAGGGAAGCCCGGACGGTCCCTCTGGACACCAGGAATATCAGACTTGTTC
ATTTTATATACAAATTGGAAGCAAACTTCAGGCATTACCTGCATCAAACCAAGAACTAG
AAATGAAGGGCTTATTGTTTCAATGACAATGGGATACTCTGGCATTGTGCTTCG
AGAGTTGGACTTCATGTCTTCTTGGAAACACAGATCATTTCCATTGACCTGCCACAGGA
CGCGAAGACACCTGCAACGGCATTTCGATGGTGGCAACCGCAACATGGGAAGCATTGAGC
CCAGTGGGCTTTGGATGATGTTCTTATAGGAATGAATGACAGCTCTCAAACCTGGATTTCA
AGACAAATTTGATGGCTCTATAGATTTGCAAGCCAACTGGTATCGAATCCAAGGAGGTCA
AGTTGATATTGACTGTCTCTCTATGGATACTGCTCTGATATTCACTGAAAAATAGGAAA
ACCTCGTTATGCTGAGACCTGGGATTTTCTGTGTGTCAGCATCTACCTTTTTGAGTTTGA
AATGAGCATGGGCTGTAGCAAGCCCTTCAGCAACTCCACAGTGTAAGCTCCAGTATTC
TCTGAACAATGGCAAGGACTGGCATCTTGTCAACGAAGAGTGTGTTCTCCAACCATTTGG
CTGTCTGCATTACACGGAAGTTCAATTTACACCTCGGAAAGATTCAGAAATTGGAAGCG
GATCACTGTCTACCTTCCACTCTCCACCATTCTCTCCAGGACCCGGTTGAGATGGATTCA

FIGURE 1 (CONT'D)

GGCCAACTACACTGTGGGGGCTGATTCTCTGGGCGATTGATAATGTTGTACTGGCCTCAGG
 GTGCCCTTGGATGTGCTCAGGACGAGGGATTTGTGATGCTGGACGCTGTGTGTGTGACCG
 GGGCTTTGGTGGACCCTATTGTGTTCTGTGTTCTCTGCCCTCGATTCTTAAAGACGA
 TTTCAATGGGAATTTACATCCTGACCTTTGGCCTGAAGTGATGGTGCAGAGAGGGGGAA
 TCTGAATGGTGAAACCATCAAATCTGGAACATCTCTAATTTTAAAGGGGAAGGACTAAG
 GATGCTTATTTCAAGAGATCTAGATTGTACAAATACAATGTATGTCAGTTTTCACTTAG
 ATTTATAGCAAAAAGTACCCAGAGAGATCTCACTCTATTCTGTTACAATTCTCCATCAG
 TGGAGGAATCACTTGGCACCTGATGGATGAATTTTACTTTCTCTCAAACAACGAATATACT
 TTTTCATCAATGTTCCCTTGCCATACACTGCCCCAAACCAATGCTACAAGATTCACTCTG
 GCAACCTTATAATAACGGTAAGAAAGAAGAAATCTGGATTGTTGATGACTTCATTATCGA
 TGGAAATAATGTAAACAACCCCTGTGATGCTCTTGGATACATTTGATTTTGGGCCAGAGA
 AGACAATTGGTTTTTCTATCCTGGTGGTAACATCGGTCTTTATTGTCCATATTCTTCAA
 GGGGGCACCTGAAGAAGATTCACTATGGTGTGTTGTTTTCAAATGAAGTTGGTGAGCATT
 CATTACCACCCGTGACCTAAATGTGAATGAGAACAACCATCATACAATTTGAGATCAACGT
 TGGCTGTTTCGACTGATAGCTCATCCGCGGATCCAGTGAGACTGGAATTTTCAAGGGACTT
 CGGGGCGACCTGGCACCTTCTGCTGCCCCCTCTGCTACCACAGCAGCAGCCACGTGAGCTC
 TTTATGCTCCACCGAGCACCACCCAGCAGCACCTACTACGCAGGAACCATGCAGGGCTG
 GAGGAGGGAGGTGTCACCTTTGGGAAGCTGCACCTTTGTGGATCTGTCCGTTTCAGATG
 GTACCAGGGATTTTACCCTGCCGGCTCTCAGCCAGTGACATGGGCCATTGATAATGTCTA
 CATCGGTCCCCAGTGTGAGGAGATGTGTAATGGACAGGGGAGCTGTATCAATGGAACCAA
 ATGTATATGTGACCTGGCTACTCAGGTC CAACCTGTAAAATAAGCACCAAAAATCCTGA
 TTTTCTCAAAGATGATTTTGAAGGTGAGCTAGAATCTGATAGATTCTTATTAATGAGTGG
 TGGGAAACCATCTCGAAAGTGTGGAATCCTTTCTAGTGGAAACAACCTCTTTTCAATGA
 AGATGGCTTGCGCATGTTGATGACACGAGACCTGGATTATCACATGCTAGATTTGTGCA
 GTTCTTCATGAGACTGGGATGTGGTAAAGGCGTTCCTGACCCAGGAGTCAACCCGTGCT
 CCTACAGTATTCTCTCAACGGTGGCCTCTCGTGGAGTCTTCTTCAGGAGTTCCTTTTCAG
 CAATTCAGCAATGTGGGCAGGTACATTGCCCTGGAGATACCCTTGAAAGCCCGTTCTGG
 TTCTACTCGCCTTCGCTGGTGGCAACCGTCTGAGAATGGGCACCTCTACAGCCCCTGGGT
 TATCGATCAGATTCTTATTGGAGGAAATATTTCTGGTAATACGGTCTTGGAAGATGATTT
 CACAACCCCTTGATAGTAGGAAATGGCTGCTTCACCCAGGAGGCACCAAGATGCCCGTGTG
 TGGCTCTACTGGTGATGCCCTGGTCTTCATTGAAAAGGCCAGCACCCGTTACGTGGT CAG
 CACAGACGTTGCCGTGAATGAGGATTCTTCTCTACAGATAGACTTCGCTGCCTCCTGCTC
 AGTCACAGACTCTTGTTATGCGATTGAATTGGAATACTCAGTAGATCTTGGATTGTCATG
 GCACCCATTGGTAAGGGACTGTCTGCCTACCAATGTGGAATGCAGTCGCTATCATCTGCA
 ACGGATCCTGGTGTGAGACACTTTCAACAAGTGGACTAGAATCACTCTGCCTCTCCCTCC
 TTATACCAGGTCCCAAGCCACTCGTTTCCGTTGGCATCAACCAGCTCCTTTTGACAAGCA
 GCAGACATGGGCAATAGATAATGTCTATATCGGGGATGGCTGCATAGACATGTGCAGTGG
 CCATGGGAGATGCATCCAGGGAACTGCGTCTGTGATGAA CAGTGGGGTGGCCTGTACTG
 TGATGACCCCGAGACCTCTCTTCCAACCCAACTCAAAGACAACCTTCAATCGAGCTCCATC
 CAGTCAGAACTGGCTGACTGTGAA CGGAGGGAAATTGAGTACAGTGTGTGGAGCCGTGGC
 GTCGGGAATGGCTCTCCATTT CAGTGGGGGTTGTAGTCGATTATTAGTCACTGTGGATCT
 AAACCTCACTAATGCTGAGTTCATCCAATTTTACTTTCATGTATGGGTGCCTGATTACACC
 AAACAACCGTAACCAAGGTGTTCTCTTGGAATATTCTGTCAATGGAGGCATTACCTGGAA
 CCTGCTCATGGAGATTTTCTATGACCAGTACAGTAAGCCCGGATTTGTGAATATCCTTCT
 CCCTCCTGATGCTAAAGAGATTGCCACTCGCTTCCGCTGGTGGCAGCCAAGACATGACGG
 CCTGGATCAGAACGACTGGGCCATTGACAATGTCCTCATCTCAGGCTCTGCTGACCAAAG
 GACCGTTATGCTGGACACCTTCAGCAGCGCCCCAGTACCCAGCATGAGCGCTCCCTGTC
 AGATGCCGGCCCTGTGGGAGGATCGCCTTTGACATGTTTATGGAAGACAAAACCTTCAGT
 GAATGAGCACTGGCTATTCCATGATGATTGTACAGTAGAAAGATTCTGTGACTCCCCTGA
 TGGTGTGATGCTCTGTGGCAGTCATGATGGACGGGAGGTGTATGCAGTGACCCATGACCT
 GACTCCCACTGAAGGCTGGATTATGCAATTCAAGATCTCAGTTGGATGTAAGGTGTCTGA
 AAAAATTGCCCAGAATCAAATTCATGTGCAGTATTCTACTGACTTCGGTGTGAGTTGGAA
 TTATCTGGTCCCTCAGTGCTTGCCTGCTGACCCAAAATGCTCTGGAAGTGTCTCTCAGCC
 ATCTGTATTCTTTCCAACCTAAAGGGTGGAAAAGGATCACCTACCCACTTCCTGAAAGCTT

FIGURE 1 (CONT'D)

AGTGGGAAATCCGGTAAGGTTTAGGTTCTATCAGAAGTACTCAGACATGCAGTGGGCAAT
CGATAATTTCTACCTGGGCCCTGGATGCTTGGA CAACTGCAGGGGCCATGGAGATTGCTT
AAGGGAAACAGTGCATCTGTGATCCGGGATACTCAGGGCCAACTGCTACTTGACCCACAC
TCTGAAGACTTTCTGAAGGAACGCTTTGACAGTGAAGAAATCAAACCTGACTTATGGAT
GTCCTTAGAAGGTGGAAGTACTTGCACTGAGTGTGGAATTCCTGCCGAGGACACTGCACT
CTATTTTGGGGGATCCACTGTGAGACAAGCGGTTACACAAGATTTGGATCTTCGAGGTGC
AAAGTTCCTGCAATACTGGGGGCGCATCGGTAGTGAGAACAACATGACCTCTTGCCATCG
TCCCATCTGCCGGAAGGAAGGCGTGCTGTTGGACTACTCTACCGATGGAGGAATTACCTG
GACTTTTGCTCCATGAGATGGATTACAGAAATACATTTCTGTTAGACACGACTACATACT
TCTTCCTGAAGATGCCCTCACCAACACAACCTCGACTTCGCTGGTGGCAGCCTTTTGATG
CAGCAATGGAATTGTGGTCTCTGGGGTGGAGCGTGCTCAGTGGGCACTGGACAACATTTT
GATTGGTGGAGCAGAAATCAATCCAGCCAATTGGTGGACACTTTTGATGATGAAGGCAC
TTCCCATGAAGAAAACCTGGAGTTTTTACCCTAATGCTGTAAGGACAGCAGGATTTTGTTG
CAATCCATCCTTTACCTCTATTGGCCAAATAAAAAGAAGGACAAGACTCACAATGCTCT
CTCCTCCCAGAACTCATTATACAGCCAGGATACATGATGCAGTTTAAAATTGTGGTGGG
TTGTGAAGCCACTTCTGTGGTGACCTTCATTCCGTAATGCTGGAATACACTAAGGATGC
AAGATCGGATTCTGGCAGCTCGTACAGACCAGTGCCTTCCTTCTCTTCTAACAGCAT
TGGCTGCTCCCTTTCCAGTTCCATGAAGCCACCATCTACAACCTCTGTCAACAGCTCAAG
CTGGAAAAGAATCACCATCCAGCTGCCTGACCATGTCTCTCTAGTGCAACACAGTTCCG
CTGGATCCAGAAGGGAGAAGAACTGAGAAGCAAAGCTGGGCAATTGACCACGTGTACAT
TGGAGAGGCTTGCCCAAGCTCTGCAGCGGGCACGGATACTGCACGACCGGTGCCATCTG
CATCTGCGACGAGAGCTTCCAAGGTGATGACTGCTCTGTTTTTCAGTCACGACCTTCCCAG
TTATATTAAAGATAATTTTGAGTCCGCAAGAGTACCGAGGCAAACTGGGAGACCATTCA
AGGTGGAGTCATAGGAAGTGGCTGTGGGCAGCTGGCCCCCTACGCCCATGGAGACTCACT
GTACTTTAATGGCTGTGATCAGGCAAGCAGCTACCAAGCCTCTGGATCTCACTCGAGC
AAGCAAAATCATGTTTGTGTTTGCAAATTGGGAGCATGTGCGAGACGGACAGCTGCAACAG
TGACCTGAGTGGCCCCCACGCTGTGGACAAGGCAGTGTGCTGCAATAAGCGTCAACAA
CGGGATCACCTGGCATGTCTCGCCCAGCACAGCCAAAGGACTTCACACAAGCTCAGAG
AGTGTCTTACAATGTCCCCCTGGAGGCACGGATGAAAGGAGTCTTACTGCGCTGGTGGCA
ACCACGCCACAATGGAACAGGTATGATCAATGGGCTTTGGACCATGTGGAGGTCTGCTCT
TAACAGCACTCGCAACAAAATTACATGATGAATTTTTTCAGACAACATGGGCTCAGACA
TTTTCTACAACAGAAGACGAAGGTCACTTAGGCGATACCATGAAGAATCAAAAAGTTTAT
TTTTTTTTCTTCCAACATGTGATGTGTTGCTCTCCATTCTTTTAAATCTCGCACTACATCT
GATATCAGGAAATATCTGTGAAGGACTTGGTGATTACCTGAAAGCCCTTCTCAAGACCGA
GTGTACACCACTTTCCCACTGTGAACTAATGACAAGTGAATTTTGTCTATAAGTAA
ATGTCTTCATGTTGATGTGTCCGTGAAAGTTGTGATCTGTTGTAATATCAGTTACAGTGG
CAGTATTGACAATAAGAAAACAGTTTAAACAGAAAAATGAAATTTAAGCACAAAAAATTTAA
GAGATTTTATGTTTAAATGGCATTTAGCACAGTATTTAACATTCTTGGTCACAAAGCTA
TTTAAGTGGACTGTATTTTCGGCTATGTCTCATGTTTTATATGATTAAATTATCATTGTTT
GTCCTTTATGTATTCTCTTCTACAATACAACACATTGAAACTGTATTTACTTGTTATGTT
GTAATATTTTGTGCTGAATTTGGGGCTACTTATATTCTGCAGAAAATTAATTGAAATAC
CTATTCAAGAAGATAGTTGTAAAGATATTGTATCTCCTTTAATATACTCCTTAAAAATGT
ATGTTGGTTTTAGCGTTGTTTTGTGGATAAGAAAAATGCTTGACCCTGAAATATTTTCTAC
TTTAAATTGTGGATGAAGACCCTATCTCCCAAAATAAGTTCCCATTTCTTGTCTAAAG
ATCTTTTTTTAAGTGTCTGTGGCTGATTTACTAACAGTAACTGCCATTTTTTGTCTGTG
ATAACAGAGTGATTTGTAAAAACAGTGGTTGTTTTTTCATTGTGTTTTCTTCGTGGATTGT
TTTTTCTGCGGGTCATATTATACCTTCTGATGAAGTTGTACAACACCAGCAACATTATA
ATGGCCCTGTAGCTCTGAATGCTATTTGTGTAAGTGAAGGTTGCACTCTAGGGTGAACC
AAGCTATAAAAGCCCATGCTTAAATAAAAATTATGTCCAAAAGCC

Gene 690. >OTTHUMT00007006602 cDNA sequence

AAAAGGAAGAAGGAGTGGTCAGATGAATCTGAGGAGGAGCCGGAGAAGGAGCTCGCCCCCT
GAGCCTGAGGAGACCTGGGTAGTGGAGATGCTGTGTGGGCTCAAGATGAAGCTGAAGCAA
CAGCGAGTGTCACCCATCCTCCCTGAGCACCACAAGGACTTCAACAGTCAGCTTGCCCCCT
GGGGTAGATCCCAGCCCCCGCATAGGTCCTTTTGTCTGGAAAAGGAAGAGGGAGTGGTGG

FIGURE 1 (CONT'D)

GACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCCCCTGAGCCTGAG
GAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGACGGCGAGTG
TCGCTCGTGCTCCCTGAGCACCAAGAGGCCTTCAACAGGCTGCTTGAGGATCCTGTATT
AAAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTGTGGACAAGTATCTCCTGGCTATG
GTCATAGCGTATTTTCAAGCCGGGCGGCCTCCCCTCCTGGCAATACCAACGCATTATTTC
TTCCTGGCTCTCTACCTGGCCAATGACATGGAGGAGGACGACGAGGACCCAAACAAAAC
ATCTTCTACTTCTGTATGGGAAGACCCGCTCTCGCATACCTTGGTCCGTAACCGTCGG
TTCAGTTATGCGGTTGCTTGAACCCGAGGGCCAGGAAGAACCGCTCTCAGATAGCCCTG
TTCAGAAACTTCGGTTCCATGAGCTTTGGTTCCAGTTATGCGTTACATGAACCCGAGG
GCCAGGAAGAACTGCTCTCAGATAGCCTTGTTCGGAAGTATCGGTTCCACTTCTTTTGT
TCCATGCGCTGCAGGGCTTGGGTTTCCCTGGAGGAGTTGGAAGAGATCCAGGCTTATGAC
CCAGAGCACTGGGTGTGGGCGCGAGATCGCGCCCACTTTCC

Gene 691. >OTTHUMT00007006603 cDNA sequence

ATGGCCAAGCGCAGCTCGCTGTACATCCGCATCGTGGAGGGGAAGAACCTTCCCGCCAAG
GACATCACTGGCAGCAGCGACCCCTACTGCATCGTGAAGGTGGACAATGAGCCCATCATC
AGGTACCGCCCCACCCCCAGGACCGAGGGGCGCTCAGCCTCTCATCGGCCGCGCTCTC
CCCGCAAAGGGGACAGCCACAGTGTGGAAGACCTGTGCCCCCTTCTGGGGTGAGGAGTAC
CAAGTGCACTGCGGCCACCTTCCACGCTGTGGCTTTCTATGTATGGATGAGGATGCC
CTCAGCCGGGACGACGTTATCGGAAAGGTCTGCCTTACAAGGGACACCATAGCCTCTCAC
CCTAAGGGTTTTCAGCGGGTGGGCCCACCTGACAGAGGTGACCCCGACGAGGAGGTGCAG
GGCGAGATCCACCTGCGGCTGGAAGTGTGGCCAGGGGCCCCGGGCTGCGGCTACGCTGC
TCTGTGCTGGAGGCCAGGGATCTGGCCCCAAAGGACCGCAATGGCACATCTGACCCCTTC
GTCCGAGTGCGCTACAAGGGCCGGACACGGGAGACCTCGATCGTGAAGAAGTCATGCTAC
CCACGCTGGAATGAGACGTTTGAATTTGAGCTGCAGGAGGGGGCCATGGAGGCGCTGTGC
GTGGAGGCCTGGGACTGGGACCTTGTTCAGCCGAAACGACTTCTGGGCAAAGTGGTGATT
GATGTCCAGAGACTGCGGGTGGTGCAGCAGGAGGAGGGCTGGTTCCGGCTGCAGCCCGAC
CAGTCCAAGAGCCGGCGGCATGACGAGGGCAACCTGGGCTCCTTGAGCTGGAGGTGCGG
CTGCGGGACGAGACGGTGCTGCCCTCCAGCTACTACCAGCCACTGGTGACCTGCTGTGC
CACGAGGTCAAGCTGGGCATGCAGGGCCAGGGCAGCTGATCCCACTCATCGAGGAGACA
ACCAGCACCGAGTGTGCGCCAGGACGTGGCCACGAACCTGCTCAAGCTCTTCTGGGGCAG
GGGCTGGCCAAGGACTTCTTGACCTGCTCTTCCAGCTGGAGCTGAGTCGCACCAAGTGAG
ACCAAACCCCTGTTCCGGAGCAACTCTCTGGCCTCAAAGTCCGTGGAGTCTTTTCTGAAG
GTGGCCGGGATGCAGTACCTGCACGGCGTCTGGGCCCCATCATCAACAAGGTGTTTGAG
GAGAAGAAGTACGTGGAGCTGGACCCAGCAAAGTGGAAAGTTAAGGATGTAGGGTGCTCC
GGGCTGCAACGCCCCGAGACCGAGGCGGAGGTGCTGGAGCAGAGCGCGCAGACGCTGCGC
GCCACCTGGGGGCCCCGCTGAGCGCGCTCAGCCGCTCGGTTGCGCGCTGCCCGCCGCTG
GTGCGCGCCACCTTCCGCCAGCTCTTCCGGCGCGTGCAGCGAGCGCTTCCCGGCGGCCAG
CACGAGAATGTACCGTTTCATCGCCGTCAACAGCTTCTGTGCCTGCGCTTCTTCTCTCCC
GCCATCATGTGCGCCAAGCTCTTCCACCTGCGGGAGCGCCACGCGGACGCCCCGACACAGC
CGCACCTGCTCCTGTTGGCCAAGGCAGTCCAGAACGTGGGCAACATGGACACGCGGGCT
TCCAGGGCCAAGGAGGCTTGGATGGAGCCGCTGCAGCCACCGTGCACCAAGGCGTGGCG
CAGCTGAAGGACTTCATCACCAAGCTCGTGGACATCGAGGAGAAGGACGAGCTGGACCTG
CAGCGGACGCTGAGTTTGCAGGCGCCACCTGTGAAGGAGGGGCCACTCTTCATCCACAGG
ACCAAGGGCAAGGGCCCCCTCATGTCTCTCTCTTCAAGAAGCTCTACTTCTCCCTCACT
ACCGAGGCCCTCAGCTTTCGGAAGACGCCAGCTCCAAGAAAAGCGCCCTCATCAAGTTA
GCCAACATCCGGGACGCGAAAAGGTTGAGGAAAAGAGCTTTGGCGGCTCGCACGTCATG
CAGGTATCTACACGGACGACGCGGCGAGGCCCGAGCTGCCTACCTGCAGTGCAAGTGT
GTGAATGAGCTTAACAGTGGCTGTCTGCGCTGCGGAAGGTGAGCATCAACAACACCGGA
CTGCTGGGCTCCTACACCTGGCGTCTTCCGTGGGGACAAGTGGAGCTGCTGCCACCAA
AAAGAGAAGACAGGTGAGGGCTGCGATAAGACCCGTCACGGGTGACCTGCAGGAGTGG
AATGACCTCTTGACCATGACCTTGAGGCCAGCTCATCTACCGGCACCTGCTGGGCGTG
GAGGCCATGCTGTGGGAGAGGACCGGGAGCTGAGCGGGGGCGCAGAGGACGGCACGGTG
CCCACGAGCCCTGGCAAAGTCCCCGAGGACTCATTGGCCCCGGCTGCTCCGGGTGCTGCAG
GACCTCCGCGAGGCCCATAGCTCCAGCCCGGCCGCTCCCCACCTCAGAGCCCAACTGC

FIGURE 1 (CONT'D)

CTCCTGGAGCTGCAGACG

Gene 692. >OTTHUMT00007006613 cDNA sequence

CCCCGCGCTGCGCGGAGCAGGGACCAGGCGGTTGCGGCGGCGACAGCCATGGCCGGCGCG
CTGGCAGGTCTGGCCGCGGGCTTGACAGTCCCAGGGTTCGCGCCAGCCCAGACTCGGAC
TCGGACACAGACTCGGAGGACCCGAGTCTCCGGCGCAGCGCGGGCGGCTTGCTCCGCTCG
CAGGTTCATCCACAGCGGTCACTTCATGGTGTCTGCGCCGACAGCGACTCGCTGCCCCGG
CGGCGCGACACAGGAGGGGTCCGTGGGGCCCTCCGACTTCGGGGCCGCGCAGTATCGACCCC
ACACTCACACGCCTCTTCGAGTGTCTGAGCCTGGCCTACAGTGGCAAGCTGGTGTCTCCC
AAGTGGAAGAATTTCAAAGGCCTCAAGCTGCTCTGCAGAGACAAGATCCGCCTGAACAAC
GCCATCTGGAGGGCCTGGTATATCAGTATGTGAAGCGGAGGAAGAGCCCCGTGTGTGGC
TTCGTGACCCCCCTGCAGGGGCTGAGGCTGATGCGCACCGGAAGCCGGAGGCCGTGGTC
CTGGAGGGGAACACTGGAAGCGGCGCATCGAGGTGGTGTGCGGAATACCACAAGTGG
CGCATCTACTACAAGAAGCGGCTCCGTAAGCCAGCAGGGAAGATGACCTCCTGGCCCCCT
AAGCAGGCGGAAGGCAGGTGGCCGCCCGGAGCAATGGTGTCAAACAGCTCTTCTCCAGT
GTGGTCCCCGTGCTGCTGGGGGACCCAGAGGAGGAGCCGGGTGGGCGGCAGCTCCTGGAC
CTCAATTGCTTTTTTGTCCGACATCTCAGACACTCTCTTACCATGACTCAGTCCGGCCCT
TCGCCCCCTGCAGCTGCCGCCTGAGGATGCCTACGTGGCAATGCTGACATGATCCAGCCG
GACCTGACGCCACTGCAGCCAAGCCTGGATGACTTCATGGACATCTCAGATTTCTTTACC
AACTCCCGCCTCCACAGCCGCCCATGCCTTCAAACCTCCAGAGCCCCCAGCTTCAGC
CCCGTGGTTGACTCCCTCTTCAGCAGTGGGACCCTGGGCCCAGAGGTGCCCCCGGCTTCC
TCGGCCATGACCCACCTCTCTGGACACAGCCGTCTGCAGGCTCGGAACAGCTGCCCTGGC
CCCTTGGACTCCAGCGCCTTCTGAGTTCTGATTTCTCTTCTCTGAAGACCCCAAGCCC
CGGCTCCCACCCCTCCTGTACCCCACTCTGCTGCATTACCTCCCCCTGCCAAGGTG
CCAGGCCTGGAGCCCTGCCCCCACCTCCCTTCCCTCCCATGGCACCACCCACTGCTTTG
CTGCAGGAAGAGCCTCTCTTCTCTCCCAGGTTTCCCTTCCCCACCGTCCCTCCTGCCCCA
GGAGTGTCTCCGCTGCCTGCTCCTGCAGCCTTCCCCACCCACCCACAGTCTGTCCCCAGC
CCAGCCCCACCCCTTCCCCATAGAGCTTCTACCCTTGGGGTATTTCGGAGCCTGCCTTT
GGGCCTTGCTTCTCCATGCCCAGAGGCAAGCCCCCGCCCCATCCCCTAGGGGACAGAAA
GCCAGCCCCCTACCTTAGCCCCCTGCCACTGCCAGTCCCCCACCCTGCGGGGAGCAAC
AACCCTGCTCACAACAGCTGCTCACAGCAGCTAAGCCGGAGCAAGCCCTGGAGCCACCA
CTTGATCCAGCACCTCCTCCGGTCCCCAGGGTCCCCGAGGAGACAGTCCCTGAATTC
CCCTGCACATTCTTCCCCCGACCCCGGCCCCCTACACCGCCCCGGCCACCTCCAGGCCCG
GCCACATTGGCCCCCTTCCAGGCCCTGCTTGTCCCCAAAGCGGAGCGGCTCTCACCCCCA
GCGCCAGCGGCAGTGAACGGCGGGCTGTGAGGGGACCTCAGCTCCATGCCAGGCCCTGGG
ACTCTGAGCGTCCGTGTCTCTCCCCCGCAACCCATCCTCAGCCGGGGCCGTCCAGACAGC
AACAAGAACCGGCGTATCACACACATCTCCGCGGAGCAGAAGCGGCGCTTCAACATCAAG
CTGGGGTTTGACACCCTTCATGGGCTCGTGAGCACACTCAGTGCAGCCAGCCAGCCTCAAG
GAGCGTGCGGGCTTGACAGGAGGAGGCCAGCAGCTGCGGGATGAGATTGAGGAGCTCAAT
GCCGCCATTAACTGTGCCAGCAGCAGCTGCCCGCCACAGGGGTACCCATCACACACAG
CGTTTTGACCAGATGCGAGACATGTTTGATGACTACGTCCGAACCCGTACGCTGCACAAC
TGGAAGTTCTGGGTGTTTTCAGCATCCTCATCCGGCCTCTGTTTGTAGTCTTCAACGGGATG
GTGTCCACGGCAAGTGTGCACACCCTCCGCCAGACCTCACTGGCCTGGCTGGACCAGTAC
TGCTCTCTGCCCCGCTCTCCGGCCAACTGTCTGAACTCCCTACGCCAGCTGGGCACATCT
ACCAGTATCCTGACCGACCCGGGCGCATCCCTGAGCAAGCCACACGGGCAGTCAACAGAG
GGCACCTTGGCAAACCTTTATAGTCTTGCCAGACCCTGCTGCTCACTCAGCTGCCCTG
GGGGCTGCTTTCCCTGGGCACGGGCTCCAGGGATCATCTCTGGGCACTCCCTTCCCTGCCC
CAGGCCCTGGCTCTGCCCTTCCCTGGGGGTGGAGCAGGGTCCAGGTTTCACTTTGCCA
CCTCCTGGAGGTCAAGAAGAGCAGAGTCCCCGTCCCTGCTCTGCCACTGTGCTCCAGCAC
CGTGACCTTGGGTGACTCGTCCGCTGTCTTTGGACCGCTGTGTTTCAATCTGCAAAATGG
GGATGGGGAAGGTTCAATCAGCAGATGACCCCCAGGCCTTGGCAGCTGTGACATTGGGGG
CCTAGGCTGGCAACTCCGGGGGCTCAACGGTGGAAAGAGGAGGATGCTGTTTCTCTGTCA
CCTCCACTTGCTCCCCGACAGGTGGGGCACAGACCTCTGTTCTGAGCAGAGAAGCAGAA
AAGGAGGTTCCCTCTCTCTGCTCCTTCACTGCTGACCCAGAGGGGCTGCAGGATGGTTTC
CCCTGGGAGAGGCCAGGAGGGCCTGATCCAGGAGACACCAGGGCCAGAGTGACCACAGC

FIGURE 1 (CONT'D)

AGGGCAGGCATCATGTGTGTGTGTGTGTGTGGATGTGTGTGTGTGGGTTTTGTAAAGAAT
TCTTGACCAATAAAAGCAAAACTGTCTGCTGGTT

Gene 693. >OTTHUMT00007006614 cDNA sequence

CCTGCCGAATCAATTCAACATGGCAGCCATGCGCTGGCGATGGTGGCAGCGGCTGTTACC
TTGGAGGTTGCTGCAGGCCCCGTGGCTTTCCACAAAATTCTGCACCCAGCCTGGGCCTAGG
AGCGAGGACTTATTCACAGGGCGACTGCTCGTATTTCGCGCACGGCGCTGTATGATCTGCT
CGGCGTCCCCTCCACAGCCACGCAGGCCCCAAATCAAGGCGGCTTACTACCGTCAGTGCTT
TCTCTACCACCCGGACCGCAACTCCGGGAGCGCGGAGGCCGCCGAGCGCTTACGCGCAT
CTCCAGGCCTACGTGGTGTCTGGGCAGTGCCACCCTCCGTGCAAGTATGATCGCGGCCT
ACTCAGCGACGAGGACCTGCGCGGACCTGGCGTCCGGCCCTCCAGGACGCCCGCACCCGA
CCCCGGCTCGCCGCTACCCCGCGCCACCTCTCGGACCCACGACGGTTCTCGGGCCTC
CCCCGGCGCAACCGCACGATGTTCAACTTTGACGCCTTCTACCAGGCCACTACGGGGA
ACAACCTGGAGCGGGAACGGCGCCTGAGGGCCCCGGCGGGAGGCCCTTCGAAACGGCAGGA
GTATCGGTCCATGAAAGGCCTCCGCTGGGAGGATACCCGAGACACGGCTGCCATTTTCCT
CATCTTTTCAATCTTCATCATCATCGGCTTTTATATTTAATCGGAGAGAGAAGGGAAGGG
GAGTGTCCCCCAGCCAACCCCCCAGAAACGGCCTTTTTTTCCTGCTCTGAACCTTGGCCA
TTGATAGTCTACCTTTGCTGGGATCCGAAGGAAGTGTACTCCCCCTGCCCTCCCCGACCC
GCCCAGCTTAGCCGATGACCTGCACATCGCTCCACTGTGGTCCAGAAAAGGAGGCCTTTC
GATGTCTGAGAAAGAGGCCCCACGCTGTAGAGTCCCGAAAGCCAGGAGTGAAGGGGGTT
CCTGGAGTCTCTAGGGTGCTTCTTCAGAGTCTGTCTTCTTGCTTCAGATGTGGTCAAC
TTCTGGAACACTCGCTGTAGCTTTATTGTTTAGCCCAAGCAAGATTTATCTCCTCCTGC
CCCGCATGTGTATGGTGGGCCTCTGTAACCTTGAAATGTGCAATGTGACCAATTGTTGAC
TACCAAAGAAAAGGTCTGGGGTTGTACGAAA

Gene 694. >OTTHUMT00007007275 cDNA sequence

AGGGGAGTGGGGTCTCTCAGCGTGAAAACAGGAGTCATTGTCAGCCTCGCTCCCCCAGCT
CTGCCTCCCATGACTGGCGTTTTTGGTTCTATTCTAATTTCTGCTGGGTT

Gene 695. >OTTHUMT00007006628 cDNA sequence

GGAGAAGGAGCGCGGGGAGGACGTACCTTGTGAGATGCGAGCCGGCCAACAGCTTGCAAG
CATGCTCCGCTGGACCCGAGCCTGGAGGCTCCCGCGTGAGGGACTCGGCCCCACGGCCC
TAGCTTCGCGAGGGTGCCTGTGCGACCCAGCAGCAGCAGCGGCGGCCGAGGGGGCGCCGA
GCCGAGGCCGCTTCCGCTTTTCTACAGGCTTCTGGACGGGGAGGCAGCCCTCCCGGCCGT
CGTCTTTTTTGACGGGCTCTTCGGCAGCAAACTAATTTCAACTCCATCGCCAAGATCTT
GGCCAGCAGACAGGCCGTAGGGTGTGACGGTGGATGCTCGTAACACGGTGACAGCCC
CCACAGCCCAGACATGAGCTACGAGATCATGAGCCAGGACCTGCAGGACCTTCTGCCCCA
GCTGGGCCTGGTGCCCTGCGTCGTGCTTGGCCACAGCATGGGAGGAAAGACAGCCATGCT
GCTGGCACTACAGAGGCCAGAGCTGGTGGAACTGCTCATTTGCTGTAGATATCAGCCCAGT
GGAAAGCACAGGTGTCTCCCACTTTGCAACCTATGTGGCAGCCATGAGGGCCATCAACAT
CGCAGATGAGCTGCCCCGCTCCCGTGCCCGAAAACCTGGCGGATGAAACAGCTCAGTTCTGT
CATCCAGGACATGGCCGTGCGGCAGCACCTGCTCACTAACCTGGTAGAGGTAGACGGGCG
CTTCGTGTGGAGGGTGAACCTTGATGCCCTGACCCAGCACCTAGACAAGATCTTGGCTTT
CCCAAGAGGCGAGGTCTACCTCGGGCCAACACTCTTTCTCCTTGGTGGAACTCCA
GTTTCGTGCATCCAGCCACCAACCTGAGATTATGCGGCTCTTCCCTCGGGCCAGATGCA
GACGGTGCCGAACGCTGGCCACTGGATCCACGCTGACCGCCACAGGACTTCATAGCTGC
CATCCGAGGCTTCTTGGTCTAAGAGTTGCTGGCAAGAAGATGGCCGGGCGTGGTGGCTCA
TGCCTGTAATTCAGCACTTTGGGAGGCTAAGGCGGGAGGATGACTTGAGGCCAGGAGTT
GGAGACCAGCCTGGCCAACATGGTGAAACCTGTCTCTACTAAAAATACAAAAATTAGCC
TGGCGTGGTGGTGCACACCTGTAATCCAGCTACTCTGGAGGCTGAGGCAGGAGAATCAC
TTGAACCTTGAGGCAGAGGTTGCAATGAGCCGAGATCACACCACTACACTCCAGCCTAG
GCAACAGAGCAAGACTCTGTCTCAAAAAAACAACCAAAAAGGAGGCACAAAACCCCAG
GCTTCAAGTCTCTGCAGCCTGCTCCACATTTGGGCACAGAAGGACTCAGACAGGCACTGT
GTGGGCACGAGGTTTTACAGGGGTGGTCAGACCTCAGGCTTTAATGAATAAAGACACTAC
TCCCAA

Gene 696. >OTTHUMT00007006630 cDNA sequence

GTGCTGCTGAGGCGTGAGAATGGCGTCCCGCGGCCGGCGTCCGGAGCATGGCGGACCCCC

FIGURE 1 (CONT'D)

AGAGCTGTTTTATGACGAGACAGAAGCCCGGAAATACGTTTCGCAACTCACGGATGATTGA
TATCCAGACCAGGATGGCTGGGCGAGCATTGGAGCTTCTTTATCTGCCAGAGAATAAGCC
CTGTTACCTGCTGGATATTGGCTGTGGCACTGGGCTGAGTGGAAGTTATCTGTCTAGATGA
AGGGCACTATTGGGTGGGCTGGATATCAGCCCTGCCATGCTGGATGAGGCTGTGGACCG
AGAGATAGAGGGAGACCTGCTGCTGGGGATATGGGCCAGGGCATCCCATTCAAGCCAGG
CACATTTGATGGTTGCATCAGCATTTCTGCTGTGCAGTGGCTCTGTAATGCTAACAAGAA
GTCTGAAAACCTGCCAAGCGCCTGTACTGCTTTTTTGCTTCTCTTTTTCTGTTCTCGT
CCGGGGATCCCGAGCTGTCTGCAGCTGTACCTGAGAACTCAGAGCAGTTGGAGCTGAT
CACAAACCAGGCCACAAAGGCAGGCTTCTCCGGTGGCATGGTGGTAGACTACCTAACAG
TGCCAAAGCAAAGAAATTCTACCTCTGCTTGTCTTTCTGGGCCTTCGACCTTTATACCAGA
GGGGCTGAGTGAAAATCAGGATGAAGTTGAACCCAGGGAGTCTGTGTTACCAATGAGAG
GTTCCCATTAAGGATGTGAGGCGGGGAATGGTGAGGAAGAGTCGGGCATGGGTGCTGGA
GAAGAAGGAGCGGCACAGGCGCCAGGCAGGGAAGTCAGACCTGACACCCAGTACACCGG
CCGCAAGCGCAAGCCCCGCTTCTAAGTCACCACGCGGTTCTGGAAAGGCACCTTGCCTCTG
CACTTTTCTATATTGTTTCAGCTGACAAAGTAGTATTTTAGAAAAGTTCTAAAGTTATAAA
AATGTTTTCTGCAGTAAAAAAAAGTTCTCTGGGCCGGGCGTGGTGGCTCACACCTGTAA
TCCCAGCACCTTGGGAGGCTGAGGTGGGAGGATCATTTGAGGCCAGGAGTTTGAGACCTG
CCTGGGCAACATAATGAAACTTCCTTTCCAGGGAGGAAAAAAAAAAAAAAAAAAGCTCT
GAGAGCATCTTATTTTGTAAAGGCAAGAAATAAAATTCCTTTTGTGGA

Gene 697. >OTTHUMT00007006631 cDNA sequence

CACTTGTAATCCTAGCACTTGGAAAGGCTGAGACAGGAGGATCACTTGAGGCCAGGAGTT
TGAGACCAACCTGGGCAATATAGTGAGACCTATTTCTACAAAAATAAAATAAATAGCC
AGGCCTGGTGGTATGCACCTGTAGTCCTAGCTACTGAGGAGGCTGACGGAGGAGGATCAC
TTGAGCCCAGGAATTGGAGGCTGCAGTGAGCTATGATCAGCCACTGCACTCCAGCCTGG
GCGACAGAGCCAGACCTATCTCTGAAAAACAATAATAAACGACAACCAATGCTGACTGT
GTCTCCATCACTGGGTGGGGCTGAGGAAGCAGGCCTCAGAAAGGAAGCCAGTTTTCCCCC
AAAATTATTCCTGAGGCTGCCTCTGGGCCTGTGGATCCAGATGTGTGGGGGCCTTCAGG
AGTGGCAGGGGAGTGGGGCTCCAGCGTGAAAAACAGAAAGTCACCGTCAGCCTTGCACCCC
CGGCTCTGCCTCCAGGACTGGTGTCTTTGCTCTGTTTTAATTTCTGCTGGGTCTCTCC
CTTGACATTGTGAGGTATGCAGGCTGGGACATCCCTTCTTTCTCTACATTCCCCCTA
GAGCCCAAGGCTCTGTCCGTGGTCCAGCCACTCCATGGCAGGGAAGCTGTACCTCCATAA
TCAGCTGCCTGAGGGCCCCCTGACCCACCAACAGGCACCAACCTGGTGGGGCTGAGGTTAG
AAGGGAAAGAATGCCAGAACTCCAGTCCTGGAGGCAGGAGAGTGTGTGAGCCAGCCCCG
CCCTCTCAGACTCTCAGACCTTTATTTTCATCCTCATTTTCTGGCTAGAGGTTCCATGCA
TCATTTTTTTTTTTTTTTTTTTTTCAGATGGAGTCTCACTCTATTGCCAGGCTGGAGTGCA
GTGGTGCTATGTCCGGCTCACTGAAACCTCCGCCTCTCAGGTTCAAGCAATTCTCCTGCCT
CCGCCTCCCAAGTAGCTGGGATTACAGGCATGCACCACCACACCTGGCTAGTTTTTGTAT
TTTTAGTAGAGACGGGGTTTTACCATGTTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAG
GTGATCCACCTGCCTGGGCTTCCCAAAGTACTGGGATTATAGGCTTGAGCCACCACGCCC
GGCTGGTTCATGCATCTTACCTGGATGACTTGGGTCCCTAAATGGGCCCCCTGGGTGCCC
AGCCTCCCCTCCTCCAATACATTCTCTGATAATCTGACCTTGTGATGACATTGGGGCAC
CTGTTGCCCCAGGGTAGAGGCCAGGTGCCTGAGGACAGCACTGAAGGCCGTGCACCTCC
ACCTCCAGCCTCCAGTCACCTACCTAGCTCACTGCTCTCTCTCTCTGCAAAGTCTCTCCT
GCTTCCCTCCCTAAGGGAAGGGCTGGCCGCTCACTGCTTGGGCCCTTGATTTCTAAGA
CACCTGTGAAGGGTCCCAAGGCCAGGCACAGTGGCTCTTGTCTGTAATCCCAGCGCTC
TGGGAGGCTGAGGCAGGAGGATCACTTGGGTGAGGAGTTCAATGTGGACAACACAGTAA
GACCCTGTCTCTACAAAAAATTTAAACTTAGCTGGCATTGGTGGCGCATGCCTATAGT
CCCAGCTACTTGGGAGGTTGAGGTAGGAGGATCGCTTGAACCCAGGAGTTCAAGTCTGCA
GTGAGCTATGATTGCACCACTGCACTCCAGCCTGGGTGATAGAGCAAGACCCCAACTCAA
AAAAAAAAAAGGATCCACGGTTACCTTGTGCTGCCACGATCGGTTGGCAGCTCTGC
TCTGTGCCGTCTGTGCCTGTCACTGAGTAAGATGCAGGAGAAGTTGGGCAAAAGCCCTC
AGGATAAACGAATAAGTCATTGAGGTAGGTGCTGGTGGGAAATGGGCTTGAGTCACTCA
CCTGGGGCCAGAAGAGGCCCCCAGGGAGTTGTGAGCAGATTAGACCTCCAGACCGCCC
CAGGGGTTGGCCCATGCTTTCCCTAACTGTGCAAAATGGTTTGGGATAGGCTGGGTGCC

FIGURE 1 (CONT'D)

GTGGGTCACGCCTGTAATCCAGCACTTTGGGAGGCTGAGGCAGGTGGATCACCTCAAGT
CAGGAGTTTCGAGACCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAGA
AATTAGCTGGGTGTGGTTGCACACGCCTGTAATCCAGCTACTCAGGAGGCTGAGGGAGG
AGAATCCCTTGAACCCGGGAGGCGGAGGTTTATGGGGAACCCAGCAGGAAATTAGAATAG
AACCAAAAACGCCAGTCATGGGAGGCAGAGCTGGGGGAGCGAGGCTGACAAATGACTCCTG
TTTTTCACGCTGAGAGACCCCACTCCCCTGCTGAGATCGCGCCACTGCACTCCAGCCTGGG
CGACAGAGCAAGACTCCATCTCAAAAAAAGTTAATTAATTAATTAGATTAAAGTACAA
CAATTAGCAGGGCATGGTGGTGCACGTCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAG
AAGAATCGCTTGAACCCCTGGAGGCGGAGGTTGCCGTGAGCCAAGATCGCACCACTGCACT
CCAGCCTGGGCGACAAAGTGAGACTCTGTCTCAAAAA

Gene 698. >OTTHUMT00007006642 cDNA sequence

AGGGGGAGAGGTAGAGATGAGACAAGAGGTAGAGGGGAGAGGTAGAGGTAGCCACGAGCT
GATAATTACAGACAAGAGATGCGGAGTATGTGGGGGCTCATTATCCTGCATAGTCTATCT
TTGTATATCTTTGAACTTTTCAAGAATAAAAAAGCTTAAAAAGTATACATGGCCTGGTCC
TACCAGAGACTCACCAATGCCAGCCTCCAGCCAGGGAGAGCCAAGTTTGCATTTTCA
CGCATCTCACACTCCTCTGCACTCTCAACTTGGAGAGCTCCAAACAGGGAAACCCCAAGC
CTTGCTGGCTTCTGCCAACCCCTGAGCAGAAGCATGGGTCCCCCTGATCACCACTCAC
CACCTCATCCTGATCTCACTGTACACTCCCTTTCTGGTCTGCTAAGTAGCGGGTGTTT
TTCCTTGACACTAACGCTACAGCTAGACCACGGTGGGCTTGGCAACAGGTGTCTTCCAG
ATGCTGGCGTTACCGCTAGACCAAGGAGCCCTCTGGTGGCCCTGTCCGGGCATAACAGAA
AGCTCGCACTCTTGTCTTCTGGTCACTCCTCATTGTCCCCTCAGCTCCTATCTCTGTATG
GCCTGGTGTCTTCTAGGTTATGATTGTAGAGCGAGGATTATTATAATATTGGAATAAAGA
ATAATTACTACAACTAATGATTAATGATTATATATAATCATATCTAAGATCTATATCT
AGTATAACTATTCTTATTTTATATATTTTATTATACTGGAACAGCTCGTGCCCTCGGTCT
CTTGCCCTCGGCACCTGGGTGGCTTGCTGCCCACATCCACCAAGTGCACTTTGGGAGGCTG
AGGCTGGAGGACTGCTGGAGGCCAGGAGTTCAATACCAGCCTGGGCAACATAGGGAGACC
CCCCCCCCCACCATCTC

Gene 699. >OTTHUMT00007006643 cDNA sequence

AGGGGGAGAGGTAGAGATGAGACAAGAGGTAGAGGGGAGAGGTAGAGGTAGCCACGAGCT
GATAATTACAGACAAGAGATGCGGAGTATGTGGGGGCTCATTATCCTGCATAGTCTATCT
TTGTATATCTTTGAACTTTTCAAGAATAAAAAAGCTTAAAAAGTATACATGGCCTGGTCC
TACCAGAGACTCACCAATGCCAGCCTCCAGCCAGGGAGAGCCAAGTTTGCATTTTCA
CGCATCTCACACTCCTCTGCACTCTCAACTTGGAGCGCTCCAAACAGGGAAACCCCAAGC
CTTGCTGGCTTCTGCCAACCCCTGAGCAGAAGCATGGGTCCCCCTGATCACCACTCAC
CACCTCATCCTGATCTCACTGTACACTCCCTTTCCCGGTCTGCTAAGTAGCGGGTGTTT
TTCCTTGACACTAACGCTACCGCTAGACCACGGTGGGCTTGGCAACAGGTGTCTTCCAG
ATGCTGGCGTTACCGCTAGACCAAGGAGCCCTCTGGTGGCCCTGTCCGGGCATAACAGAA
AGCTTGCACTCTTGTCTTCTGGTCACTCCTCACTGTCCCCTCAGCTCCCATCTCTGTATG
GCCTGGTTTTTCTAGGTTATGATTGTAGAGCGAGGATTATTATAATATTGGAATAAAGA
ATAATTACTACAACTAATGATTAATGATTATATATAATCATATCTAAGATCTATATCT
AGTATAACTATTCTTATTTTATATATTTTATTATACTGGAACAGCTCGTGCCCTCGGTCT
CTTGCCCTCGGCACCTGGGTGGCTTGCTGCCCACATCCACCAAGTGCACTTTGGGAGGCTG
AGGCTGGAGGACTGCTGGAGGCCAGGAGTTCAATACCAGCCTGGGCAACATAGGGAGACC
CCCCCCCCCCCCCA

Gene 700. >OTTHUMT00007006649 cDNA sequence

GCCCGGCAGGTCAAAGAGCAGCTGATTAAGCACAATATCGGACAACGTATTTTCGGACAT
TATGTGTTGGGACTGTCTCAAGGGTCCGTGAGCGAGATTCTGGCCCCGGCCCAAGCCATGG
AATAAACTGACTGTTTCGTGGCAAGGAGCCATTTTCAAGATGAAACAGTTCTCTCCGAT
GAGCAGAACATCCTGGCCCTCCGTAGCATCCAAGGCAGACAAAGAGAGAATCCAGGCCAG
AGCCTGAACAGACTATTTTCAAGGAGTACCGAAACGAAGAAATGGGTCTGAAGGTAACATC
ACCACCCGGATCCGAGCCTCGGAGACTGGCTCTGATGAAGCCATCAAGTCCATCCTAGAG
CAAGCCAAGAGGGAGCTCCAAGTGAGAAAAGTGCAGAGCCGGCCAGCCTTCTCCGCA
TCCGGCAGCGGAACTCTGATGACGCCATCCGCTCCATCCTGCAGCAAGCCCCGCGGGAG
ATGGAGGCCAGCAGGCTGCCCTCGACCTGCCTTAAAGCAGGCACCACTGTCCAGAGT

FIGURE 1 (CONT'D)

GACATCACCATCCTCACCCCCAAGCTTCTGTCCACCTCGCCCATGCCCACCGTGTCCAGC
TACCCACCTCTCGCCATCTCCCTGAAGAAGCCCTCCGCAGCTCCTGAGGCCGGTGCCTCT
GCTCTGCCGAACCCCCCGGCCCTCAAAAAGGAGGCCAGGACGCCCCCGGGCTGGACCCC
CAGGGAGCAGCCGATTGTGCACAAGGGGTCTGAGACAGGTGAAAAATGAGGTGGGCCGC
AGCGGTGCCTGGAAGGACCACTGGTGGAGCGCGGTGCAGCCGGAGAGAAGAAATGCCGCC
TCCTCCGAGGAGGCCAAGGCCGAAGAAACGGGCGGCGGGAAAGAGAAGGGCAGCGGTGGC
AGCGGAGGTGGCAGCCAG

Gene 701. >OTTHUMT00007006660 cDNA sequence

ATGCAGAGCGACGTTTGTGGGCGCGGCCCTCTCCACCCCTTACCGCTGGGGGCAGCTC
CCAGGGCGGGTCACTGCCGCGCTGCCGCTCGCAGATCAGACAGGTCCGGATGCCCTTGCA
ACCGCATTCCCGAAGGACTTCGGGGGTCTCGGCGGCAGCCGCCCATCGCGCCGTCCGC
GTGGCCACCGCGGACGCCAGTGCCGGGTCCAGGAGACGCAGGGCGACGCCACACGCCGG
GGTGGCCGACTGGGTGAGCGCGGGTGCCTCTCGCCATGGGCCCCCTCTCGGCGCGG
CTGCTAATGCAGCGCGGGCGCCCCAAGAGCGACCGGTGGGGAAGATCCGGAGTCTGCTG
TCAGGATTGGAGCTGCTTTCGAGCACCTGGACCCCAAACCTCTGTGCCGCTGACGCAG
CTGCAGGAGCTTGACCTGTCTAAACAACCACTGGAGACGCTGCCGGACAACCTGGGCCTG
TCCCACCTGCGTGTCTCCGCTGCGCCAACAACAGCTGGGGGATGTTACTGCCTTGTGC
CAGTTCCCAAGCTCGAGGAACCTCAGCCTGGAGGGCAACCCCTTCTGACGGTCAATGAC
AACCTGAAAGTCTCCTTTCTCTGCCACGCTCCGTAAGGTCAATGGCAAGGATGCGTCC
TCAACTTACTCTCAGGTGGAGAACCTGAATCGGGAGCTGACCAGCAGGGTCACAGCTCAC
TGGGAGAAGTTTCATGGCCCACTGGGTCTGAAGAGGAGGCTGAGAAGGCCCAGGCGGAC
TTTGTGAAGTCGGCTGTGAGGATGTCCGCTACGGGCCCCGAGTCCCTCAGCGAGTTCACC
CAGTGGCGGGTGCAGGATGATCTCTGAGGAGCTGGTGGCCGCCAGTAGGACCCAGGTGCAA
AAGGCTAACAGCCCAGAGAAGCCCCCAGAAGCTGGAGCTGCCACAAGCCAGGGCCAGA
CTGGCGGCCTTGAAACGGCCAGACGACGTCCCACTCAGCCTCTCTCCAGCAAGCGGGCG
TGTGCCTCCCCGTGCGCCAGGTGGAGGGCAGCCCTGTGGCAGGCTCCGATGGCAGCCAG
CCTGCTGTGAAGCTGGAGCCCTGCACTTCTGTCAGTGCCACAGCAAGAACACAGCCCC
CAGGACCTCGAGACCCAGCTGTGGGCCTGTGCCTTCGAGCCGGCCTGGGAGGAGGCCACA
TCCCAGACCGTGGCCACGTGCGGCGGGGAGGCTGTGTGCGTAATTGATTGCCAGACGGGC
ATCGTGCTCCACAAGTACAAGGCACCCGCGCAGGAGTTCTTTTCTGTGGCCTGGACCGCT
CTGATGGTGGTCCACAGGCTGGCCACAAGAAGCGCTGGAGTGTGCTGGCGGCTGCAGGC
CTACGGGGCCTGGTCCGGCTGCTGCACGTGCGTGCCGGCTTCTGCTGCGGGGTATCCGA
GCCACAAGAAGGCCATCGCCACCCCTGTGCTTCAGCCCCGCCCACGAGACCCATCTCTTC
GCCTCCTATGACAAGCGGATCATCCTCTGGGACATCGGGGTGCCCAACCAGGACTACGAA
TTCCAGGCCCAGCTGCTCACACTGGACACCACCTCTATCCCCCTGCGCCTCTGCCCTGTC
GCCTCCTGCCCCGACGCCCCGCTGCTGGCCGGCTGCGAGGGCGGCTGCTGCTGCTGGGAC
GTGCGGCTGGACCAGCCCCAAAAGAGGGTGTGTGAAGTGGAATTGCTCTTCTCTGAGGGC
TCCGAGGCATCTGGACGGAGAGTGGATGGGCTGGCATTGTGAATGAGGACATCGTGTCC
AAGGGGAGCGGCCTGGGCACCATCTGCCTGTGGAGCTGGAGGCAGACGTGGGGGGGCGG
GGCAGCCAGTCCACGGTGGCAGTGGTGGTCTGGCGCGGCTGCAATGGTCTGTCACCGAG
TTGGCCTACTTCTCGCTCAGCGCCTGCCCTAAGGGGATTGTGCTCTGTGGGGATGAGGAG
GGCAACGTGTGGCTCTACGACGTGAGCAACATCCTGAAGCAGCCACCCCTGCTGCCGGCA
GCCCTGCAGGCCCCACACAGATCCTGAAGTGGCCCCAGCCCTGGGCCCTTGGCCAGGTG
GTGACCAAGACCATGGTGAAACAGTGGTGGCCAATGCCTCCTTACCTACCTCACCGCC
CTGACGGAATCCAACATCGTAGCCATCTGGGGGAGGATGTAG

Gene 702. >OTTHUMT00007006661 cDNA sequence

ATGGCTTGGCAGGTGAGCCTGCTGGAGCTGGAGGACCGGCTTCAGTGTCCCATCTGCCTG
GAGGTCTTCAAGGAGTCCCTAATGCTACAGTGCGGCCACTCCTACTGCAAGGGCTGCCTG
GTTTCCCTGTCTACACCTGGACACCAAGGTGCGCTGCCCATGTGCTGGCAGGTGGTG
GACGGCAGCAGCTCCTTGCCCAACGTCTCCCTGGCCTGGGTGATCGAAGCCCTGAGGCTC
CCTGGGGACCCAGAGCCCAAGGTCTGCGTGACACCCGGAACCCGCTCAGCCTTTTCTGC
GAGAAGGACCAGGAGCTCATCTGTGGCCTCTGCGGTCTGCTGGGCTCCACCAACACCAC
CCGGTACGCCCCGTCTCCACCGTCTGCAGCCGATGAAGGAGGAGCTCGCAGCCCTCTTC
TCTGAGCTGAAGCAGGAGCAGAAGAAGGTGGATGAGCTCATCGCCAACTGGTGAAAAAC

FIGURE 1 (CONT'D)

CGGACCCGAATCGTCAATGAGTCGGATGTCTTCAGCTGGGTGATCCGCCGCGAGTTCAG
GAGCTGCGCCACCCGGTGGACGAGGAGAAGGCCCGCTGCCTGGAGGGGATAGGGGGTCAC
ACCCGTGGCCTGGTGGCCTCCCTGGACATGCAGCTGGAGCAGGCCAGGGAACCCGGGAG
CGGCTGGCCCAAGCCGAGTGTGTGCTGGAAAGTTCCACTCCATGGCCTCCACCAGTCATC
ACTTCCACAGGGATGACTCAGAAGTTCCCTCTCCGGGAGACCCGTCCCTTACAGGCCACA
TCCAGTAGCGCTCCAGCCATTGAGCAGCTCCGCTGGACGTCAAGGGCATGTCCAAAACC
GCGCTCATGATCTTCTACTCCCCCATCCCTGA

Gene 703. >OTTHUMT0000700666 cDNA sequence

ATGATGATGATAAAGGCTGTGACCATAGATAAACTGCAGGGAAGTTCTGTTACTGTATCT
ACCGAAGATGGGTGCTGAAAGCCAAGTATCTTTATACAGAATCATCATTTCTGTCTTCT
GCTGCTGGGGATATTACATTAGGAAGTGTTCATAATATAACATTACAAAGCGAGATGGGT
AACATCACAGTATCGTCTTCTGGATGTCTAAAAGCCTCAACTAATCAGGGTGCCATAGAT
GTTTATGTGAGCCAACTGGGGAAAGTGAATTGAAATCCCATAAAGAACGCGGCTCCTCA
CCAGTAACGGAACAAAGCTGGATGGAGAATGACTTTGACGAGTTGAGAGAAGAAGGCTTC
AGACAATCAAATACTCTGAGCTAAAGGAGGAAGTTTGA

Gene 704. >OTTHUMT0000700667 cDNA sequence

ATGTTGAGGAGCCTAGACTTAATTCTGAAGGTGATGAGGTCTTTGAAGGGTCTAAAGCA
ACACAAGAGTCAGAGGTCCAAGTGTACAGAATGCCAAACGTTTCACTGAGCAAATACAA
CAGCAGCAGTTTACCTGCAGCAAGCTGATAATTTTCCAGAAGCATTCTCCACGGAGGTCT
TCCAAAATGAGAGAACTTCTCAAGTATCAAAATGAATATAATGCAGTGAAGGAAAGA
GAGTTCATAATCAGTACAGATTAAATAAAGCCATCTCATTGAGAGCTGCAGTCAGAGAA
CACACTCCACCAAACAGTTATTAGCATTCCCTTGCCCTTCCCCTGCCCTGGCAGTGGCC
CCCTCATCCCATGACTATAGCAGTACCAGAGCACGCATCTGCATGGAAATGGAGAAGAAG
ATGAAAATATTGAGAGAAAGCACTGAAGAATTACGTAAAGAAATAATGCAGAAGAAATTA
GAAATTAATAATTTACGAGAAGATTTGGCATCTAAACAAAAGCAATTATTAAAGAGCAG
AAGGAACTAGAAGAATTGTTGGGACATCAGGTGCTCCTAAAGTTACCTCCTCTTCAAAAT
GATAACAAATATAGCTCTCTTACAAGGTGAGAAATGGAAAAGAAAAAATTGTCTTGAA
CAAGAAGTCAAAACGCTAAATGACTCCCTAAAGAAAGTTGAAAACAAGGTTAGTGCTATA
GTGGATGAGAAGGAAAATGTAATAAAGGAAGTTGAAGGCAAACGAGCCTTACTTGAAATC
AAAGAACGAGAACATAACCAATTGGTCAAGCTATTGGAATTAGCCAGAGAGAATGAAGCA
ACTTCATTAACTGAAGGGATCTTGATCTCAATTTACGCAACAGTCTCATTGACAAGCAG
AACTACCATGATGAACCTTCTCGTAAGCAAAGAGAGAAAGAACGAGATTTTCGAAATTTA
AGAAAGATGGAAGTCTCTTGAAAGTGTCTGGGATGCACTTAGGCAAACTCAAGCACTG
CATCAAAGGCTTCTATTAGAGATGGAAGCTATCCCCAAAGATGATTCTACATTATCTGAG
AGAAGGCGAGAGCTTACAAGGAAGTTGAAGTAGCTAAGAGGAATTTGGCCCAACAGAAA
ATTATATCAGAAATGGAGTCTAAGTTAGTAGAACAACAACCTTGCAAGAGAAAACAAGCTT
TTAAAGGAGCAAGAAAAATGAAAGAGCTAGTAGTCAACCTTCTCCGCATGACTCAAATC
AAAATTGATGAAAAGGAACAAAAGTCCAAGGATTTCTGAAAGCTCAGCAAAAATACACC
AACATTGTTAAAGAAATGAAAGCAAAGGATCTTGAAATCAGGATACACAAGAAGAAAAA
TGTGAAATTTATCGGCTGAGAGAGTTTGCTAAACTGTATGACACCATTGAAATGAAAGA
AACAAATTTGTTAACTTACTCCACAAAGCTCATCAGAAAGTAAATGAAATAAAAGAAAGG
CATAAAATGTATTAAATGAACTTGAAATTCTGAGAAATAGTGCCGTTAGTCAAGAAAAG
CTACAAAATTCATGCTGAAACACGCCAACAATGTTACCATCAGAGAGAGCATGCAAAAC
GATGTGCGCAAAATTTGATCAAACTTCAGGAAATGAAAGAAAAGGAAGGCCAGTTA
AATAACATTGACAGACTTGCCAACACGATCACAAATGATCGAAGAGGAGATGGTGACGCTT
CGCAAAAGATACGAAAAGCTGTTTACGATCGAAATGAAGGCGTTTCACTGATAGAGCGG
GAAGAAGAAATATGCATTTTTTATGAAAAAATAAATATCCAAGAGAAGATGAACTAAAT
GGAGAAATTGAAATACATCTACTGGAAGAAAAGATCCAATTCCTGAAAATGAAGATTGCT
GAGAAGCAAAGACAAATTTGTGTGACCCAGAAATTACTGCCAGCCAAGAGGTCCCTGGAT
GCCGACCTAGCTGTGCTCAAATTCAGTTTTTACAGTGTACAGACAGAATTAAAGACCTG
GAGAAACAGTTCGTAAAGCCTGATGGTGAGAATAGAGCTCGCTTCTTCCAGGGAAAGAT
CTGACCGAAAAGAAATGATCAAAAATTAGACAAGCTGGAACATAAATGGCCAAGAAG
GAGGAGAAGCTGCTGGAGAAGGATTTTATCTATGAGCAGGTCTCCAGGCTCACAGACAGG
CTCTGCAGCAAACTCAGGGCTGCAAGCAGGACACACTGCTCTTAGCCAAGAAGATGAAT

FIGURE 1 (CONT'D)

GGCTATCAAAGAAGGATCAAAAATGCAACTGAGAAAATGATGGCTCTTGTTGCTGAGCTG
TCCATGAAACAAGCCCTAACCATTGAACTCCAAAAGGAAGTCAGGGAGAAAGAAGACTTC
ATCTTCACTTGCAATTCCAGGATAGAAAAAGGTCTGCCACTCAATAAGGAAATTGAGAAA
GAATGGTTGAAAGTCCTTCGAGATGAAGAAATGCACGCCTTGGCCATCGCTGAAAAGTCT
CAGGAGTTCTTGGAAGCAGATAATCGCCAGCTGCCCAATGGTGTTTACACAACTGCAGAG
CAGCGTCCGAATGCCTACATCCAGAAGCAGATGCCACTCTTCCTTTGCCAAAACCTTAT
GGTGCTTTGGCTCCTTTTAAACCCAGTGAACCTGGAGCCAATATGAGGCACATAAGGAAA
CCTGTTATAAAGCCAGTTGAAATCTGA

Gene 705. >OTTHUMT00007006304 cDNA sequence

CGGCTCGGCCGCGGGGCGCGCAGGCGGCTGCTGGGCGGCCTCGGTGCGCGCCTCCCGCCT
TCCCAGAGACGTGGCGCGAGGCCCGGGCCCTGAGCACCTATCGCGGGGATCCCCGGCGCC
AGGAGGGGGTGAGCCGGTGGGCAGCGCCGCGCAGGGAGGGGCGCAGCATCCTCGCCCC
CCAGCGCGCCCGGGCCGAGAGGAGGAGGCCGGGCTCTCGGGCCTCCGCGGCTTAGC
CTGATGCTGGAAGGACGAAGGTGAGTGAAGATGGCAGAGAGGACGTGACCAGCACTCACC
CTTGTCACCTGCCAGTGGCACCGCCATGCAGAAGCCAGCGGCCTGAAGCCCCCGGC
CGTGGGGGGAAGCACTCCAGCCCCATGGGCCGACATCTACTGGGTGAGTTTCATCCTCG
GCGGCGGTGGCCGCTAGCTCCAAGGAAGGCTCCCCACTGCACAAACAGTCATCTGGACCC
TCCTCCTCCCGGCCGAGCTGCTGCCCCCGAGAAGCCGGGCCCAAGGCGGCGGAAGTG
GGGGATGACTTCCTGGGGGACTTTGTGGTGGGCGAGCGGTGTGGGTGAACGGCGTGAAG
CCAGGCGTGGTGAGTATCTGGGAGAGACGCAGTTTCGCACCGGGCCAGTGGGCTGGCGTG
GTGCTGGACGACCCGGTGGGCAAGAATGATGGCGCGGTGGGCGGCGTGCGCTACTTCGAG
TGCCCGGCCCTCCAGGGTATCTTACGCGGCCCTCCAAGCTGACCCGGCAGCCACGGCC
GAGGGCTCGGGGAGTGATGCCCACTCCGTGGAGTCGCTGACTGCCAGAACCTGTCAATTG
CATTTCGGGCACGGCCACGCCCCCGCTGACCAGCCGCGTCATCCCCCTGCGGGAGAGCGTC
CTCAACAGCTCCGTGAAGACTGGCAAAGAGTGGGATCCAACCTCTCAGACAGCGGCTCT
GTGAAGCGGGGCGAAAAGGACCTGCGCCTGGGGGACCGCGTGCTGGTTGGCGGGACGAAG
ACTGGCGTGGTGCGGTACGTGGGGGAGACAGACTTTGCCAAGGGCGAGTGGTGTGGCGTG
GAGCTGGACGAGCCCTTGGAAGAATGATGGGGCGGTGGCGGGCACCAGGTACTTCAG
TGCCCAACCAAGTTTGGTCTCTTCGCGCCCATCCACAAAGTGATCCGTATCGGCTTCCA
TCTACCAGCCAGCCAAGGCCAAGAAGACCAAGCGTATGGCCATGGGTGTGTGAGCACTG
ACCCACAGTCCCAGCAGTTCCTCCATCAGCTCCGTGAGCTCTGTGGCCTCCTCCGTGGGG
GGTGGGCCAGCCGAGTGGCCTGCTCACGGAGACCTCTTACGCTACGCCCGCAAGATC
TCGGGCACCAAGGCTTGCAGGAGGCACTGAAGGAGAAGCAGCAGCACATTGAGCAGCTG
CTGGCTGAACGAGACCTGGAACGGGCTGAGGTGGCCAAGGCCACAAGCCACATCTGCGAG
GTGGAGAAGGAGATTGCCCTGCTCAAGGCACAGCATGAGCAGTATGTTGCAGAAGCCGAG
GAGAAGCTGCAGCGAGCCCGGTGCTCGTGAGAGCGTGCGGAAAGAGAAGGTGGACCTG
TCCAACAGCTGGAGGAGGAGAGGAGGAAGGTGGAGGATCTGAGTTCCGCGTGGAGGAG
GAGTCCATCACCAAGGGAGACCTGGAGACCCAGACGCAGCTGGAGCACGCGCGCATTGGG
GAGCTGGAACAGAGCCTGCTACTGGAGAAGGCGCAGGCCGAGCGGCTGCTCCGAGAATTA
GCGGACAACAGGCTGACCACAGTGGCCGAGAAGTCGCGCGTGCTGCAGCTGGAGGAGGAG
CTCACCTGCGCCGAGGTGAAATCGAGGAGCTCCAGCAGTGCCTGTTGCACTCGGGTCCC
CCACCTCCGGACCAACAGACGCCCGCCGAGATCCTGCGGCTACGGGAGCGGCTGCTCTCG
GCCAGCAAGGAACACCAGAGGGAGAGTGGGGTGTGCGGGATAAATACGAGAAGGCCCTG
AAGGCCTACCAGGCGGAGGTGGACAAGCTCCGCGCGGCCAACGAGAAGTACGACAGGAG
GTGGCGGGCCTGAAGGACAAGGTTGAGCAGGCCACCAGCGAGAACATGGGGCTAATGGAC
AACTGGAATCCAAGCTGGACTCGCTGGCCTCGGACCACAGAAAGTCCCTGGAGGACCTC
AAAGCCACCTGAACTCGGGCCAGGCGCCAGCAGAAGGAGATCGGCGAGCTGAAGGCA
GTGATGGAGGGCATCAAGATGGAGCACAGCTGGAGCTGGGTAACTTGAGGCCAAGCAT
GACCTGGAGACCGCCATGCACGTGAAGGAGAAGGAGGCCCTGCGAGAGAAGCTGCAGGAG
GCCAGGAGGAGCTGGCTGGGCTGCAGCGGCACTGGCGGGCCAGCTGGAGGTGCAAGCC
AGCCAGCACCGGCTGGAGCTGCAGGAGGCCAGGACCAGCGCCGGGATGCCGAGCTGCGT
GTGCACGAGCTGGAAAACTGGACGTGGAGTACCGGGGCCAGGCGCAGGCTATCGAGTTC
CTCAAGGAGCAGATCTCGCTGGCCGAGAAGAAGATGTTGGACTACGAGCGGCTGCAGCGG
GCAGAAGCCAGGGCAACAGGAGGTGAGAGTTTGGGGAGAAGCTCCTGGTGGCTGAG

FIGURE 1 (CONT'D)

AACAGACTCCAGGCGGTGAGGGCCCTGTGCTCCTCCCAGCACACCCACATGATTGAGTCG
AATGACATTTTCAGAGGAGACGATCAGGACGAAGGAACTGTGGAGGGCCTGCAGGACAAG
CTGAACAAGAGGGACAAAGAGGTGACAGCCTTGACCTCCCAGACCGAGATGCTCAGGGCC
CAAGTAAGTGCCTGGAGAGCAAGTGTAAGTCAGGCGAGAAGAAGGTGGACGCCCTCCTG
AAGGAGAAGCGGCGCCTGGAGGCAGAGCTGGAGACCGTGTCCCGGAAGACCCATGACGCC
TCGGGCCAGCTAGTCCTCATCAGCCAGGAGCTGCTGCGGAAGGAGCGGAGCCTGAACGAA
CTGCGGGTGTTGCTGCTGGAGGCCAATCGTCACTCCCCAGGGCCGGAGAGGGACCTGAGC
CGTGAGGTACACAAGGCTGAGTGGCGGATCAAGGAGCAGAACTCAAGGATGACATCCGG
GGCCTGCGTGAAAAGCTGACCGGGCTGGACAAAGAGAAATCCCTGTGCGATCAGAGGCGC
TACTCCCTCATCGACCGGTCTCGGCGCCCGAGCTTCTGCGGCTGCAGCACAGCTGATG
AGCAGCGAGGACGCCCTGCGGGATGCGCTGGACCAGGCTCAGCAGGTGGAGAAGCTGATG
GAGGCCATGAGGAGCTGCCCTGACAAAGGCCAGACCATCGGCAATTCGGGTTCTGCAAC
GGCATCCACCAGCAGGACAAAGCTCAGAAACAAGAGGACAAGCACTGATCCTGAGGGGAT
ACTGTGGAGCAGCCAGTCCACACCAGAGCCCCACGCGGCTGCCCGGCAGTACCTCCTCC
AGGCAGGAGCCGGGACTGTCACTTTGGAGACAAAACAGTGTTTGTAACAATAACGTACTC
ACCGCCGCGGACAATCCCCACCCGATCCCTCGCCAGACCAGGACGCTTCTCAAGCCC
AGCCTTCTACAGAGAGTGTGAACGGTACAGCCCCGGCCTGACCCGGGGACCTTCAGCCTG
GACACCCGGCAGCTTCTGGAGTTTGTCACTGGAGGCAGAGGGGATCCGGCCAGGCCCTC
TGTCCAGAAGGAGCTGCCCTGAGGACCATCTTAGCGGCCCTGTCTCTTTTTCCGCCAT
TCTCCTCGGGTCTCCCAGAGGGGCCGGCGGGGGCTGGGGAGGGGGTAAGTTTATCCAT
GCAGACACCAAGGGGGAGCATCCAGTCTTTAAGAGCCAAGTGGGGGCCCTTTTCCGAAG
CCACTTCCAGGCCAAGGCAGTGCACAGGGCTTCTTGTCCCCACCTTCTGAACCTTCTTCA
AACAGTAGTACAAGCTCCCCTCAGCCAGCCTGCCTGCCAGCGAGGCCCCAGGTTCAAG
GTGTTGGCGGGGGCGGAGGGCAGGGGAACGGGATCCTTCTCCCGCTGCCACCAACACCA
ACACACACACACCTCTAAGCTGCTGGCCGAAGATGTACCAAGGCCAAAGACACAGTATT
ATGAAGGTTTTGGAAACCCCTCTCCTCACCTCCCACCGTGACCTTGGGCAAACCTGGCTC
GGAGCCCAGGGCAGAGGCAGCTCAGAGTGGAGGCTCTAGGCAGGTTTGACAAAGGTGAGT
AATACGGTTTTCCCTGGGGTTGACCAGATGTTCCAAAATATCTGCATCCACCTGGAGATG
CAGCTAAGTGGGTCTTATGTACACACCAGTTTACACACACACAGAGGGACCAAGTGTG
CACGCATGACCGTGTGGGTGGCGGCGTTTGCTGTGAACCAAGCTCAGGCCACAAGAGAC
ACATACTTGGTTTTCTGGGACTGAGACCCAGGCCTGGCAGGACCGTGCTACAGATACTGC
AAACGTTTCTACAGCCTAGAGGTGCGTATACACCCCAAGTACACGCAGCCAGGCATTCA
GGGGTGTGTTTGCCACATGGAGCATCCCTTCTGGTCTTGCCAGGCACCTGCACAGAGCG
TCTCCAGCCCCATCTCCTAACGGGGGCTGGGGGTAAGAGAAATCTAACTGCGCTCCCCCA
ACCCCTCGCCCTGCCATCTTCCCCTCAAGCCTGCTAAGTTATCCCAGGCCTGTGCGTGGT
GGAAAAAGCCAGCCTTGGCCCTGCAGCCTCCACCTCGCCGCTGGGGGACCAACAGGTTGC
TTACAGCTTTTGACCCCGGCATCAGCACAGGGGTCCCTGCCCCACCTCCGGCAGCTCAG
GGAGTGTTTTTCTGTGAGGCCTCCCCCATCAGTGGACCAGAGGGAGAAGCCCGATGCCCC
ATCCCGGCTTTCCCGTAACGCACAGGACACGTGTGCAATTCATAGGAACGGCCCAGATCG
CCCTCATGAGTGCACCTGGTACAGGTAGGTGGCGCTCACGTTCTGCCCCAAATGCAGCC
CATCGGGGAGTCACAGTCAGTCCCCCGGCCCCCCCTCCAGTCCCTGTTGGCTTTGGTA
GCTCTCGCATGCAGTTCTATTAAACAGCCGTCTAGAAGCGATGCTTTAGTGGCCTAACCCA
GGGTCAAATACAGCTCTTTCTAGCAAAATCAGGCAGCTCTGCCCCATCGGTAGGGGCACC
GATTAGTCTACTAACAGCCAGAGGTCCATCTAGCAGGGTGCCGGGAGGAGCTGAGCCCCC
GGAGGTGGGCTCCTGGTGACGGGTGTCCAAGAAGCGGTTTCTTGGGAGCTTCTGCCTCC
GTGGGCCTCTCAGCCCGCCCCGTGTGGCCGCGCGGTGTGGCTCAGCCATGTCCCCTCCC
CAGGTCCTTCATTACCCCTCCCCTCCCCACAGTGGAATTGTTGAAGTGTGGCGAGTCTG
TGCTCGGGACAATAAAGCTTGTGACAGGTCCAGGA

Gene 706. >OTTHUMT00007006307 cDNA sequence

ATGGCGGAACCGCCGAGCCCCGTGCACTGTGTGCTGCGCTGCCGCGGCCCCACCGCCACCGTC
TCGGAGAAAGAACCCTTTGGCAAGCTGCAACTCTCCTCCCGGGACCTCCGGGTTCTCTG
TCCGCCAAGAAGGTCCGGACTGAGGAGAAGAAGGCACCGCGGAGAGTGAACGGAGAAGGG
GGCAGCGGCGGGAACAGCAGGCAGCTGCAGCCGCGGCAGCACCTTCGCCTCAGAGCTAT
GGCAGCCCCGCGTCTTGGAGCTTTGCCCTCTGTCTGCTGCTCCCTCCCCGTCTCTTCT

FIGURE 1 (CONT'D)

CGGAGCAGTTTCTCTTTCTCCGCTGGCACGGCCGTTCCCTCCTCAGCCTCCGCTTCCTTG
TCTCAGCCGGTGCCGCGCAAACCTGCTGGTCCCTCCTACGCTGCTGCACGCTCAGCCTCAC
CATCTCCTCCTGCCCCGCCCGCGCGCTGCCTCGGCTAACGCCAAGTCGCGCAGACCT
AAGGAGAAGCGGGAGAAGGAGAGGAGGACGGTCTCGGTGGGGCCGAGAGGCCGGC
GGGGCCTCCCGGAGGAGAAAGGGAGGTGAAGCCGCTGCCC CGAAATGATAAAACAGG
AGCTTTGACGATTTTTTCGCCAGATCAAGCGGCTGCAGAATGTTTGAGCATTAGAAAAAGG
CGAATTCTTAAGGGTTCTTGTCAGACATGTTTTGCAGCTTCCATTGTGGTGTGTTTTATGT
GTGGAATTCTTTTTATTTATTCCAAAAATCAAAGACAAAATTAAAGAGAGAGACAAAGAA
AAAGAAAGAGAAAAAAGAAACATAAAGTAATGAATGAGATCAAGAAAGAGAATGGAGAA
GTAAAGATTTTGCTGAAAGGGAAGGAGAAACCAAAAACAAATATAGAAGACTTACAAATT
AAAAAGGTAAAGAAGAAAAAGAAAAAGAAACACAAAGAGAATGAAAAACGGAAGCGTCCG
AAAATGTATAGCAAATCTATTAGACCATCTGCTCAGGATTGCTAACTGATGTTGAAGAT
CAAGCAGCCAAAGGCATCCTAAATGATAACATAAAAGATTACGTTGGGAAGAATTTGGAT
ACCAAGAACTATGATTCAAAAATTCCAGAGAACAGTGAGTTTCCATTTGTCTCATTAAAG
GAGCCACGAGTTCAGAATAACCTCAAAGGTTGGACACTTTGGAATTTAAACAACCTCATT
CATATAGAGCACCAGCCTAATGGAGGTGCATCGGTTATCCATGCCTACAGTAA CGAACTC
TCCCACCTGTCTCCTATGGAGATGGAGAGGTTTGAGAAGAGTTTGTTGGGTCTAGTGTTT
AGTGAAAATGAAAACCTGTCAGCTTTCTACGTGATGGGTATTGTTTATGGGGCAGCTACT
TATTTACCTGACTTTTTTAGACTATTTTTCAATTAAATTTCCCAATTACCAGTGAAAATG
GAGATATTGGGAAAGAAAGATATAGAGACAACGACTATGTCCAATTTTCATGCTCAGGTA
AAAAGAACGTATTCTCATGGTACTTACAGAGCTGGCCCAATGAGACAAATAAGCTTGGTG
GGAGCAGTTGATGAAGAAGTAGGAGATTATTTCCCTGAGTTTCTTGACATGTTGGAAGAG
TCACCATTTTTTAAATGTACACTGCCATGGGGGACGCTATCTAGTCTAAAATTACAGAGT
CGAAAAGATAGTGATGATGGTCCCATCATGTGGGTTCTGCCAGGAGAACAAATGATCCCT
GTGGCTGATATGCCAAAGTCACCTTTCAAAGGAAACCTGATCAACCCCGTATAACCAAA
GATGTAATTTGTTTTTATGCTGAAGATTTCTTAGAAGTAGTTCAACGAATGCAGTTAGAT
TTACATGAACCTCCACTGTCCCAGTGTGTCCAATGGGTTGATGATGCAAACTGAATCAA
CTGAGGAGGGAAGGCATTGCTATGCCAGGATTGAGCTATATGATAATGACATTTATTTT
ATTTCCAAGGAATGTTGTTTATCAGTTCAAGACAGTTTTCAGCTGTATGCAGTTTAGCATGG
CATATTCGGCTCAAATTATATCACTCAGAGGAGGACACTTCTCAGAATACAGCTACTCAT
GAAACAGGCACATCATCAGATTCACATCATCTGTTCTTGGAACCTCACACTGACAACATG
ATTTGTGCTGTAAGCAAAGCCTCCTTGGAATTCGTTTTTTTTCAGATAAACTTCATTCTAAA
TATGAATTACAGCAGATTAAACATGAACCTATTGCATCTGTAAGAATCAAGGAAGAACCT
GTGAATGTTAATATTCTGAAAAGACTACAGCACTGAATAATATGGATGGCAAGAATGTT
AAAGCAAATTTGGATCATGTTCAATTTGCAGAATTTAAGATTGACATGGATTCTAAATTT
GAAAATAGCAACAAAGATTTAAAGGAAGAATTGTGCCCTGGAAATCTAAGTCTAGTTGAT
ACAAGGCAACACAGTTCAGCACATTCAAATCAAGATAAAAAAGACGATGACATTTTGTGC
TAA

Gene 707. >OTTHUMT00007006310 cDNA sequence

ATGGCGTCCAAAGTCACAGATGCTATAGTCTGGTATCAAAGAAGGAGTTTCTCTCTGTG
GCCACCACCGCCCCAGGCCACAGCAAGTACTGCCTGGCTACTGCCAGTGTTCACTCAAG
GACCAAGGGCTCTTCATTAGTGTTTGTGTTAATGGAGTTGTGTCTCCTCTTGGCAGTGTT
CCTCCCTCTGGAACCTAAGACCTCCAGGCCAGGAGAACGTAATGTCTCAGGAACAGGAAGC
AAAAATTTTACTAGTGATCACTAGGGGTGATGATTGGAGCATATGATCAACAAATATGG
GAAAATCTGTTGAACAGAGAGAAATCAAGTTTATTAACTGGGGCTAAGGAATAAACCA
AAGAAAACAGCACATGTGAAACAGACCTCATAGATGTTGATCTTGTAAGATCTGCATTT
GCAAAGGCAAAGCCTGAAAGTCTTGGAATCTCTGACCAGAAAGGGAATTGTTTCGAGTT
GTATTTTTTCCCCTTTTTCTTCCGGTGGTGGTTACAAGTAACATCAAAGGTGATCTTTTTT
TGGCTTCTTGTCCTTTATCTTCTCAAGCTGCAATAGTATTATTCTGCTCCACTTCTAGC
CCACACAGCATACCTCTGACAGAGGTGATTGGGCCGATATGGCTGATGCTGCTCCTGGGA
ACTGTGCATTGCCAGATTGTTTCCACAAGAACCCCAAACCTCCTCTAAGTACAGGGGGT
AAAAGAAGATCAAAGAAAGCAAAGAATTCAATTGATAAATCAACTGAACTGACAATGGC
TATGTATCCCTTGATGGGAAGAAAGACTGTTAAAGCGGTGAAGATGGAATACAAACCAT
GAACCTCAGTGTGAAACTATTGACACAGAAGAGACAGCCTGGAACACAGGAACACTGAGG

FIGURE 1 (CONT'D)

AATGGTCCTAGCAAAGATACCCAAAGGACAATAACAAATGTCTCTGATGAAGTCTCCAGT
GAGGAAGGTCCTGAAAAGGATACTCATTACGTCGTATGTGGACAGGACTTCTGAAGGT
GTTCTTCGGAATAGAAAGTCAACCATTTATAAGAAAATTACCTAATGAGGACGCCCCT
AAATCGGGTACTAGTTGCAGCTCTCGCTGTTCAAGTTCCAGACAGGATTCTGAGAGTGCA
AGGCCAGAATCTGAAAAGAGATGTGTTATGGGAAGACTTGTTACATTGTGCAGAATGC
CATTATCTTGTACAGTGAGACAGATGTGGAAAATCATCAGATTAATCCATGTGTGAAA
AAAGAATATAGAGATGACCCCTTTTCATCAGGTGAACAGCCATATACCAGGAATAGGATAC
CAGATTTTTGGAAATGCAGTCTCTCTCATACTGGGTTTAACTCCATTTGTTTTCCGACTT
TCTCAAGCTACAGACTTGGAACAACCTCACAGCACATTCTGCTTCAGAACTTTATGTGATT
GCATTTGGTTCTAATGAAGATGTATAGTTCTTTCTATGGTTATAATAAGTTTTGTGGTT
CGCGTGTCTCTTGTGTGGATTTTCTTTTTTTTGTCTGTGTAGCAGAAAGAACTTATAAA
CAGCGATTACTTTTTGCAAACTCTTTGGACATTTAACATCTGCAAGGAGGGCTCGAAAA
TCTGAGGTTCCCTCATTTCCGGTTGAAGAAAGTACAGAATATAAAAAATGTGGCTATCTCTC
CGTTCCTATCTTAAGCGTCGAGGTCTCAGCGATCAGTTGATGTAATAGTTTCATCTGCT
TTCTTATTGACTATCTCAGTTGTATTTATCTGTTGTGCCAGATAAACCTCTACTTGAAA
ATGGAGAAAAAACCTAACAAAAAGGAGGAAGTACACTAGTGAATAATGTTTTAAACTG
GCTACTAACTGCTAAAGGAGTTGGACAGTCTTTTAGATTATATGGGCTTACAATGAAT
CCGCTGCTTTATAACATCACCCAGGTTGTTATCTGTCTGAGCTGTTTCTGGTGTTATCAGT
GACTTGCTTGGAATTTAATTTAAAGCTATGGAAGATTAAAGTCATGA

Gene 708. >OTTHUMT00007006314 cDNA sequence

GAGCACATCAGCTATGTGCCCCAGCTCTCAAACGACACCTTGGCGGGGAGGCTCACCCCTG
TCCACCTTCACGCTGGAGCAGCCTCTAGGCCAGTTCAGCAGCCACAACATCTCTGACTTG
GATACCATCTGGCTGGTGGTGGCCCTCAGCAACGCCACCCAGAGCTTCACGGCCCCACGG
ACAAACCAGGACATCCCTGCTCCTGCCAACTTCTCCAGAGGGGCTACTATCTCACACTG
AGGGCCAACCGGGTGCTGTACCAGACCAGAGGCCAGCTCCATGTCTCCGCGTCGGCAAT
GATACCCACTGCCAACCAACAAAAATTGGCTGCAACCATCCCCTACCAGGACCCGGCCCC
TACAGGGTGAAGTTCTGGTGATGAATGACGAAGGACCCGTGGCTGAAACCAAGTGGTCC
AGCGACACTCGCCTGCAGCAAGCCAGGCACCTTCGGGCTGTCCCAGGCCCCAGAGCCCG
GGCACCGTGGTCATCATCGCCATCCTGTCTATCCTCCTGGCCGTCTCCTCACGGTCCTC
CTGGCTGTGCTCATATACACCTGCTGCAGGAGCACTTCCTATCAGGCCAGAGGAGGCA
GGGAGTGTGAGAAGATACACCACGCACCTCGCGTTCAGCACTCCTGCCAGGGGGCTTCC

Gene 709. >OTTHUMT00007006319 cDNA sequence

CCATTGAATCCAGTCTTAACAGAAGTACTGCGAATCTTGTGGCCTCATTTCTGAACAAAA
GGGATTAGAGAAGAAAAATCTCTTGATATAAGGCTTGAAAGCAAGGGCAGGCAATCTTGG
TTGTGAATATTTTTCTGATTTTTCCAGAAATCAAGCAGAAGATTGAGCTGCTGATGTCAGT
TAACTCTGAGAAAGTCGTCCTCTTCAGAAAGGCCGGAGCCTCAACAGAAAGCTCCTTTAGT
TCCTCCTCCTCCACCGCCACCACCACCACCGCCACCTTTGCCAGACCCACACCCCC
GGAGCCAGAGGAGGAGATCCTGGGATCAGATGATGAGGAGCAAGAGGACCTGCGGACTA
CTGCAAAGGTGGATATCATCCAGTGAAAATTGGAGACCTCTTCAATGGCCGGTATCATGT
TATTAGAAAGCTTGGATGGGGGCACTTCTCTACTGTCTGGCTGTGCTGGGATATGCAGGG
GAAAAGATTTGTTGCAATGAAAGTTGTAAAAAGTGCCAGCATTATACGGAGACAGCCTT
GGATGAAATAAAATTGCTCAAATGTGTTGAGAAAGTGATCCAGTGACCCAAACAAAGA
CATGGTGGTCCAGCTCATTGACGACTTCAAGATTTTCAGGCATGAATGGGATACATGTCTG
CATGGTCTTTCGAAGTACTTGGCCACCATCTCCTCAAGTGGATCATCAAATCCAATATCA
AGGCCTCCAGTACGTTGTGTGAAGAGTATCATTCGACAGGTCTTCAAGGGTTAGATTA
CTTACACAGTAAGTGCAAGATCATTCTACTGACATAAAGCCGAAAAATATCTTGATGTG
TGTGGATGATGCATATGTGAGAAGAATGGCAGCTGAGGCCACTGAGTGGCAGAAAGCAGG
TGCTCCTCCTCCTTCAGGGTCTGCAGTGAGTACGGCTCCACAGCAGAAACCTATAGGAAA
AATATCTAAAAACAAAAAGAAAAAAGTGAAGAAAGAAACAGAAAGAGGCAGGCTGAGTTATT
GGAGAAGCGCCTGCAGGAGATAGAAGAATTGGAGCGAGAAGCTGAAAGGAAAAATAATAGA
AGAAAAATCACCTCAGCTGCACCTTCCAATGACCAGGATGGCGAATACTGCCAGAGGT
GAACTAAAAACAAAGGATTAGAGGAGGCGGCTGAGGCAGAGACTGCAAAGGACAATGG
TGAAGCTGAGGACCAGGAAGAGAAAGAAGATGCTGAGAAAGAAAAATTGAAAAAGATGA
AGATGATGTAGATCAGGAACCTTGCGAACATAGACCCTACGTGGATAGAATCACCTAAAAAC

FIGURE 1 (CONT'D)

CAATGGCCATATTGAGAATGGCCCATTTCTCACTGGAGCAGCAACTGGACGATGAAGATGA
TGATGAAGAAGACTGCCCAAATCCTGAGGAATATAATCTTGATGAGCCAAATGCAGAAAG
TGATTACACATATAGCAGCTCCTATGAACAATTCAATGGTGAATTGCCAAATGGACGACA
TAAAATTCCCGAGTCACAGTTCCAGAGTTTTCCACCTCGTTGTTCTCTGGATCCTTAGA
ACCTGTGGCCTGCGGCTCTGTGCTTTCTGAGGGATCACCCTTACTGAGCAAGAGGAGAG
CAGTCCATCCCATGACAGAAGCAGAACGGTTTTAGCCTCCAGTACTGGGGATTTGCCAAA
AGCAAAAACCCGGGCAGCTGACTTGTTGGTGAATCCCCTGGATCGCGGAATGCAGATAA
AATTAGAGTAAAAATTGCTGACCTGGGAAATGCTTGTTGGGTGCATAAACACTTCACGGA
AGACATCCAGACGCGTCAGTACCGCTCCATAGAGGTTTTAATAGGAGCGGGGTACAGCAC
CCCTGCGGACATCTGGAGCAGGCGTGTATGGCATTGAGCTGGCAACGGGAGATTATTT
GTTTGAACCACATTCTGGGGAAGACTATTCCAGAGACGAAGACCACATAGCCCATCAT
AGAGCTGCTAGGCAGTATTCCAAGGCACTTTGCTCTATCTGGAATAATTCTCGGGAATT
CTTCAATCGCAGAGGAGAACTGCGACACATCACAAGCTGAAGCCCTGGAGCCTCTTTGA
TGTACTTGTGAAAAGTATGGCTGGCCCCATGAAGATGCTGCACAGTTTACAGATTTCTT
GATCCCGATGTTAGAAATGGTTCCAGAAAAACGAGCCTCAGCTGGCGAATGCCTTCGGCA
TCCTTGTTGAATTCTTAGCAAATTTACCAATATTGCATTCTGAGCTAGCAAATGTTCC
CAGTACATTGGACCTAAACGGTGACTCTCATTCTTTAACAGGATTACAAGTGAGCTGGCT
TCATCCTCAGACCTTTATTTTGCTTTGAGGTACTGTTGTTTGACATTTTGCTTTTTGTGC
ACTGTGATCCTGGGGAAGGGTAGTCTTTTGCTTTCAGCTAAGTAGTTTACTGACCATTTT
CTTCTGGAAACAATAACATGTCTTAAGCATTGTTTCTTGTTGTTGTGTGACATTCAAATG
TCATTTTTTTGAATGAAAAATACTTTCCCTTTTGTTTGGCAGGTTTTGTAATACTTTT
ATGAAGAAATATTTTAGCTGAGTACTATATAATTTACAATCTTAAGAAATTATCAAGTTG
GAACCAAGAAATAGCAAGGAAATGTACAATTTTATCTTCTGGCAAAGGGACATCATTCT
GTATTATAGTGTATGTAAATGCACCTGTAAATGTTACTTTCCATTAAATATGGGAGGGG
GACTCAAATTTTCAAGAAAGCTACCAAGTCTTGAGTGCTTTGTAGCCTATGTTGCATGTAG
CGGACTTTAACTGCTCCAAGGAGTTGTGCAAACTTTTCATTCCATAACAGTCTTTTCA
TTGGATTTTAAACAAAGTGGCTCTGGGTTATAAGATGTCATTCTCTATATGGCACTTTAA
AGGAAGAAAAGATATGTTTCTCATTCTAAAATATGCATTATAATTTAGCAGTCCCATTTG
TGATTTTGCATATTTTTTAAAGTACTTTTAAAGAAGAGCAATTTCCCTTTAAAAATGTGA
TGGCTCAGTACCATGTCTATGTTGCCTCCTCTGGGCGCTGTAAGTTAAGCTCTACATAGAT
TAAATTGGAGAAACGTGTTAATTGTGTGGAATGAAAAAATACATATATTTTGGAAAAGC
ATGATCATGCTTGTCTAGAACAACAAGGTATGGTATATACAATTTGCAGTGCAAGTGGGCAG
AATACTTCTCACAGCTCAAAGATAACAGTGATCACATTCATTCCATAGGTAGCTTTACGT
GTGGCTACAACAAATTTTACTAGCTTTTTTCATTGTCTTTCCATGAAACGAAGTTGAGAAA
ATGATTTTCCCTTTGCAGGTTGCACACAGTTTTGTTTATGCATTTCTTAAATTAATTG
TAGACTCCAGGATACAAACCATAGTAGGCAATACAATTTTAGAATGTAATATATAGAGGT
ATATTTAGCCTCTTTTAGAAGTCAGTGGATTGAATGTCTTTTATTTTAAATTTTACATT
CATTAAAGGTGCCTCGTTTTTGACTTTGTCCATTAAACATTTATCCATATGCCTTTGCAATA
ACTAGATTGTGAAAAGCTAACAAGTGTGTAACAATAATCCATTGTTTGAGGTGCTTGCA
GTTGTCTTAAAAATTAAAGTGTTTTGGTTTTTTTTTTTCCAGACATTGC

Gene 710. >OTTHUMT00007006331 cDNA sequence

GCGCCCCGGCCGGGCCACTGGGCCACAGGCCACGCGCCACGCAGTCCGAGCGGGAGCCG
AGCCGGGCGGGGCGAGGGCAGCTCCGCTGGCTCCCACCATGAGTGCTGAGCTTAACGTG
CCTATCGACCCCTCTGCTCCTGCCTGCCCTGAGCCCGGCCATAAGGGCATGGATTACCGG
GACTGGGTCCGCCGAGCTACCTGGAAGTGGTCACTCTAACCACCACTCGGTACAGGCC
CTGTCTGTGGCGGAAGCTCTACCTGAGCAGGGCCAAGCTGAAGGCCTCCAGCAGGACCTCC
GCCCTCCTCTCCGGCTTTGCCATGGTGGCCATGGTGGAGGTGCAGCTGGAGACGCAGTAC
CAGTACCCGCGGCGCTGCTGATTGCCTTCAGCGCTGCACCACGGTGTGGTGGCCGTG
CACCTGTTCCGCCCTCTCATCAGCACCTGCATCCTGCCCAATGTGGAGGCCGTGAGCAAC
ATCCACAACCTGAACTCCATCAGCGAGTCCCCGCATGAGCGCATGCACCCCTACATCGAG
CTGGCCTGGGGCTTCTCCACCGTGCTTGGCATCCTACTCTTCTGGCCGAGGTGGTGTGCTG
CTCTGCTGGATCAAGTTCTCTCCCGTGGATGCCCGGCGCCAGCCTGGCCCCCACCTGGC
CCTGGGAGTCACACGGGCTGGCAGGCCGCCCTGGTGTCCACCATCATCATGGTGGCCGTG
GGCCTCATCTTCGTGGTCTTCAACATCCACTTCTACCGCTCCCTGGTGCGCCACAAAACG

FIGURE 1 (CONT'D)

GAGCGCCACAACCGCGAGATCGAGGAGCTCCACAAGCTCAAGGTCCAGCTGGACGGGCAT
 GAGCGCAGCCTGCAGGTCTTGTGAGGGGCCGAGGGCCGGGGCTGGGAGCGGCCCTGTGCC
 CGGGAGTCCGCAGAGGCGGGGATTTGTGAGATGCAGACATTTTGCAAGGCTGCCGGGTAG
 TTCAAGACCAAAGTTTTCTCTTGTCTTAATACCATAAGGACTGGATGACTTCTCTGAG
 ATAGAACCGTTTTGGTTCAATGAGGGACTGTGTTGCTAAGAGCGTTGGGGGCAAAGCCAGG
 CTGGTTCTTTGGCCTCGGGGTTTTCTGGGTGGGGACACGGTGAAGAGGCTCCAGCGGGA
 CCTGCCCATCAGTCCTGGGCCAGGAGGGGCTCCAAGCAGCACCCAGCGGTCCGGGGGAGT
 CTCAGACCCGGCATGCGTGGCTGGCAGACCTGGGAGAGCCAGGGCAGGGTTTTGCGTTCA
 GAGAAGGATTGCCCCAGAGACCCGTGGTGGACTTCATGGGTGCTGAGTGGCCCGTGTGAC
 AGTGATGACACGAAGGCTTCGGCGTTTGTGAGTGGGTGCAGGTGCACGCCAGGGCTTGGTGC
 TTCCCTGCCTGGCCCTGGAGGGAGCTGGGTGGCCTGGCTTCAGGGGAAGACAGGAGCCAG
 GACACACGTGAGCCAGCAGGTGTGGGGGGTGTGTCAGCCCTCGGCAGTGGGGTCAGGCC
 CTGGGGGATGTTTTCAATGGTGGGCAGCCTGGCCAGGCCGAGAAGACATGTTTACGGGC
 ATCTATCAGATGCCCCCTTGAGGAGGCTGAGTTATTTGAGGGCTGCTGCAAAGTACGCTA
 GGCTCAAATTTCTTTTTCCAGCCAGAGCCCTGGCCACACGGACTCAGAGGGGCCACCGG
 GGTGGGGAAAGGACCCCTCCCCACCCCCCGCAGCCACTGGCCTCCAGCTCTCGGCCACA
 GAATGGCCTCTAAGGCTGACTCAGCCACTCCCTTGGGCTGTGGCAGCAGGAGGCGGGGGC
 TCTGGCTCAGGCCCCGAGCCTGTGCAGCTTGGCCATGGCCCTAGGCAGCGAGGGGACAG
 CCTGGGGGACTTCTGCTAGGCAAGGTCATTGGCCGGGCCTGGCCTGTGGATAGTGGGG
 CCAGGGGCCGGCCCAGGCCAAATGAGTGCCTCCTTGTATGACACCAAGTACTACAAG
 GGAGGCAAGACCCCTCAGGCCTCTCAGCCGACACTGGGTCCCAACACACAGTACTG
 TGCCGTGCAGTGCAGGTTCTGGCCTTTTCTTGAAGGCATCTGGTAGACCCGAAGCCACG
 CTCTCGGGCCGACATGACGCGCGCAGCACCAGCTGCCCTGAGCTGCTTGTAACAACAAA
 CACCTTTCCCCTCTTCTCCAGCTGTAACTGGAGAGTCAGCCATGCCTTGCTTTTGTTC
 TCATAAATAGTCACTGGGGCCGGGCGCAGTGAATCAGCCTGTAACTCCAGCACTTTGGG
 AGGCCTAGGTGGGCGGATCACTTGGGTGAGGAGTTCGAGACCAGCCTGGCCAACATGGT
 GAAACCCCTGTCTCTACTAAAAAATACAGAAAATTAGCTGGGCGTGGTGGCGGGCGCCTG
 TAGCCCCAGTACTTGGGAGGCTGAGGCGGGAGAATGGCAATGGCGTGAAACCGGGAGGC
 AGAGCTTGAGTGAAGTGAAGTGGCGCCACTGCACTCCAGCCTGGGCGACAGAGCCAGAC
 TCCATCTC

Gene 711. >OTTHUMT00007006349 cDNA sequence

GACGGCAAATGGCGGACTTCGACACCTACGACGATCGGGCCTACAGCAGCTTCGGCGGGC
 GCAGAGGGTCCC CGGCAGTGTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCCA
 CAGAGCCCCCTACACAGCATACGTAGGAAATCTACCTTTCAATACGGTTCAGGGCGACA
 TAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGTACGGCTAGTCAGAGACAAAGACA
 CAGATAAATTTAAAGGATTCTGCTATGTAGAATTGATGAAGTGGATTCCCTTAAGGAAG
 CCTTGACATACGATGGTGCATGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAG
 GCAGAAAAAAGATAAAGGTGGCTTTGGATTAGAAAAGGTGGACAGATGACAGAGGAA
 TGGGTAGCTCTCGAGAATCTAGAGGTGGATGGGATTTCCCGGGATGACTTCAATTCTGGCT
 TCAGGGATGACTTCTTAGGGGGCAGGGGAGGTAGTCGCCAGGCGACCGGCGAACAGGCC
 CCCCCATGGGCAGCCGCTTCAGAGATGGCCCTCCCTCCGTGGATCCAACATGGATTTCA
 GAGAACCCACAGAAGAGGAAAGAGCACAGAGACCAGACTCCAGCTTAAACCTCGAACAG
 TCGCGACGCCCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGC
 CTAGAGAGGAAGTCGTTCAAAAGGAGCAAGAATGAGCCTGCGGTTGGGAGGGAATGGGGC
 GTGGGGGGTTAGAGCAGGACCAAGCCTGGTGAAGTCCCCGGGCGAGCCGTCTGCAGCCGC
 CACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCTTGTGAGTGCATGTCA
 GCTGTAAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTT
 TGTGCGTTTTTTTTCTTTCTTCCGCTGCTTCCCCATTTTCTTCTGTCTTTTTCTCCTGC
 TCCTTGTTTTCCAGCAGCAGATGGGGTTCTCGGAGGAGCAGAGGTGGCCGCGCTGGGG
 GGGCGTTTTGGGCTGCGGTGCTGCGTCATTTTTCTTTGCTTTCTCTTTACTTTAGACACT
 GGCCCAACTCCAGGCGTTTTCTTTTCAATCCCTCAGTGCTTCTCTTCTGACCTGCATGTTG
 AGTTCTGTATTGCTGGGGCTTCCAACAAAAACAGAGTCACTGACAGAGGGAACAGCAGA
 GACCTTGTTGGTATTGAGCTGTGATGGATATAGAGAATCAGAGGCACCTTGTTTTTCAAA
 CTAGGATAAAAAATATCTGCAGGGTCCTTTCCATTCTATTTAGAGGGAGTCCTGGCTCCA

FIGURE 1 (CONT'D)

TGACCCCCTCCCGAGTGGACTGTCCAAGCAGATAGGCTCACACGAGAAACAGTGAGGCTG
AAAGGGGGGGCTATGGAAGAGCGGTAGGGAGTCCACGGAGAAGATGCAGTGAATGCTTGC
ATGCATTACACGTGTGTGTGTCCAGCTAGTTCACTCCTTTGCGCGTGCCTGGTGGAGG
CTGGCCTCTCTGGCTGGGTGCAGTGAATGGCCAGCGGGTTTCTTTTCTGCTGGGCCAAGG
CGCTTTGGGGGTGGAGGGGGTGGTGTGGTGTGCACTGGGCTGACTGCGGCGCTGACGC
AGCGTTTCCCCCATCCCTGTTGCCTGTGTGTGTGTGGATCTGTTCTAGTATAGGCAA
CATAATGAGATACTGTGCTTCCACCTCCCCTTCAGTTCAGAGCCAAAATGGGTCTAGAA
TCTGGCACTTTACTCATTTCTTTGATAAATTGTACTATGCAGAGCTGTCAGGAACCTTC
AGATAGCAGTAGAGGACTGCAGCTGTCTAGGTCTGCGGCCACATCTTGGGGACACACTGG
ACTGTTCCCATGTGCAGGGTTTCAGCAGTTATGTGGGAGTGCTAGGGGTTAGGCTTTTGAG
CTTGAACGCCTGCGTGTGAACAGATGAAAAATCCTTCAGTACCCAAGTCCCAGTCTGTCC
TATGGGGAGCAGTTTGGGGGCGGCCGCGCAGCAGGAGCCTGGGAAAGAGGCCCTCGCCAGG
TGATGGCAGGGCCAGGGTGGCCTGGGGCACCCAGCGGAATGTGCTTAGTATTTGGTCAAC
AGCCGTCTCCTGGGCTTTTCTACTGTGTCTTGTACAAGGCCTCAGCAATCCACAGAA
CTCTCTCTCCTTCCCTTCCACCTGTGAGCTTCTCTGCTTCTGAGATAAGAACCATTTGTGT
AACACCAACACTTAACTTCAGAAAGACATGCATTATGTGGTGAATCAAAACCGATGCTT
TCAGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACAACACATGCATCTA
AACTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAATGGAATTCCAAACACTTAACAC
ATTGAGCTATATGACAGAAAGTAAATCTATGGATATGGTATTTTGTGAATGATCTTTTAA
ATAAAAGAAAACCTTACGTAATATTT

Gene 712. >OTTHUMT00007006353 cDNA sequence

CAGTGCGGCGGATGTACGGATGATTCACTGGCTGGCAGGAAGCCCGCCCTGCCCCCGCGC
CAGTGTCACTGGTGTGGCATCAGCTTGGGCAGGTGTGCGGGCTCAGGATGGGGCGGCCG
TGGTGAGGAACCTGGACTCTCAGCATCACAAAGAGGCAACACCAGGAGCCAACATGAGCT
CGGGGACTGAACTGCTGTGGCCCGGAGCAGCGCTGCTGGTGTGTTGGGGGTGGCAGCCA
GTCTGTGTGTGCGCTGCTCACGCCCAGGTGCAAAGAGGTGAGAGAAAATCTACCAGCAGA
GAAGTCTGCGTGAGGACCAACAGAGCTTTACGGGGTCCCGGACCTACTCCTTGGTGGGGC
AGGCATGGCCAGGACCCCTGGCGGACATGGCACCCAAGGAAGGACAAGCTGTTGCAAT
TCTACCCAGCCTGGAGGATCCAGCATCTTCCAGGTACCAGAACTTCAGCAAAGGAAGCA
GACACGGGTGGGAGGAAGCCTACATATGATGATGCCAATTCTACGAGAATGTGCTCATT
TGCAAGCAGAAAACCAAGAGACAGGTGCCCAGCAGGAGGGCATAGGTGGCCTCTGCAGA
GGGGACCTCAGCCTGTCACTGGCCCTGAAGACTGGCCCCCACTTCTGGTCTCTGTCCCTCT
GCCTCCCCGGAAGAAGATGAGGAATCTGAGGATTATCAGAACTCAGCATCCATCCATCAG
TGGCGCGAGTCCAGGAAGGTATGGGGCAACTCCAGAGAGAAGCATCCCCTGGCCCCGTG
GGAAGCCAGACGAGGAGGACGGGGAAACCGGATTACGTGAATGGGGAGGTGGCAGCCACA
GAAGCCTAGGGCAGACCAAGAAGAAAGGAGCCAAGGCAAAGAGGGACCACTGTGCTCATG
GACCCATCGCTGCCTTCCAAGGACCATTTCCAGAGCTACTCAACTTTTAAGCCCCCTGCC
ATGGTTGCTCCTGGAAGGAGAACAGCCACCCTGAGGACCACCTGGCCATGCGTGCACAG
CCTGGGAAAAGACAGTTACTCACGGGAGCTGCAGGCCCGTCAACCAAGCCCTCTCCCGACC
CAGGCTTTGTGGGGCAGGCACCTGGTACCAAGGGTAACCCGGCTCCTGGTATGGACGGAT
GCGCAGGATTTAGGATAAGCTGTCACCCAGTCCCATAACAAAACCACTGTCCAACACTG
GTATCTGTGTTCTTTTGTGCTATGAATTTGGATTCTTAATTGCTATTGTTGGTTGCTGGG
GTTTTAAATGATTGATAAGCTTGTACAGTTAACTTATAGAGGGGGAGCCATATTTAACAT
TCTGGATTTCAAGTAGAGATTTCTGTGTTGTCTCTAGAAAAGCATTACATGTAGTTTAT
TTCAGCATCCTTGTTGGGTGGGGCCCTGGCTCTCTTCCCCTTTGGTGGGACCTCCCCTTT
CTTTGGGCTTCAGTTCACTCAGGAAGAAATGAGGCTGTGCGCATCTTTATGTGCTTCCAG
TGGAATGTCACTTGCTACAGACAATAGTGATGAGAGTCTAGAGAAGTAGTGACCAGAA
CAGGGCAGAGTAGGTCCCCTCCATGGCCCTGAATCCTCCTCTGCTCCAGGGCTGGCCTCT
GCAGAGCTGATTAAACAGTGTGTGACTGTCTCATGGGAAGAGCTGGGGCCAGAGGGAC
CTTGAGTCAGAAATGTTGCCAGAAAAGTATCTCCTCCAACCAAAACATCTCAATAAAAC
CATTTTAGTTGAAAAGC

Gene 713. >OTTHUMT00007007303 cDNA sequence

GCCGCTCCTGCGTGCATGTTGGGGAGCCAGTACATGCAGGTGGGCTCCACACGGAGAGG
GGCGCAGACCCCGTGATAGGGCTTTACCTGGTACATCGGCATGGCGCAACCAAAGCAAGA

FIGURE 1 (CONT'D)

GAGGGTGGCGCGTGCCAGACACCAACGGTCGGAAACCGCCAGACACCAACGGTCGGAAAC
CGCCAGACACCAACGCTCGGAAACCGCCAGACACCAACGCTCGGAATACACGCCAGACCA
CGACGGAGGGCGACCACCTCCCTTCTGACCCTGCTGCGGGCGTT CGGAAAAAAACGCAG
TCCGGTGTGCTCTGATTGGTCCAGGCTCTTTGACGTACGGACTCGACCTTTGACAGAGC
CACTAGGCGAAAAGGAGAGACGGGAAGTATTTTTCCGCCCGCCCGGAAAGGGTGGAGC
ACAACGTGAAAGCAGCCAATGGGAGCCAGGAGGCGGGGCGCTGTGGGAACCGTGGAG
GGCACTTTCCAGTCCCGAGGCGGATCCGGTGTTGCATCCTTGGAGAGAGCTGAGAGCT
GGAGTACAGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTT
GCTCTGGGCCCGGTAGTACTGAGTCTAAGCACTGCGGTGAAGAAGATGGTAGAAAAAGTC
TGGATGCTGGTGCCACTAATATTGATCTAAAGCTTAAGGACTATGGAATGGATCTCATTG
AAGTTTCAGGCAATGGATGTGGGGTAGAAGAAGAAAACTTCGAAGGCTTAACCTCTGAAAC
ATCACACATCTAAGATTCAAGAGTTTGCCGACCTAACTCGGGTTGAAACTTTTGGCTTTC
GGGGGGAAGCTCTGAGCTCACTTTGTGCACTGAGTGATGTACCATTCTACCTGCCACG
TATCGGCGAAGGTTGGGACTCGACTGGTGTTTGATCACGATGGGAAAATCATCCAGAAAA
CCCCCTACCCCCACCCAGAGGGACCACAGTCAGCGTGAAGCAGTTATTTTCTACGCTAC
CTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCTTCG
CCTTCTGCCGTGATTGTGAGTTCTTGAGGGCTCCCCAGCCATGCTTCCTGTACAGCCTG
CAAACTGACTCCTAGAAGTACCCACCCACCCCTGCTCCTTGGAGGACAACGTGATCA
CTGTATTAGCTCTGTCAAGAATGGTCCAGGTTCTTCTAGA

Gene 714. >OTTHUMT00007006363 cDNA sequence

GCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTG
GTACTGAGTCTAAGCACTGCGGTGAAGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCC
ACTAATATTGATCTAAAGCTTAAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAAT
GGATGTGGGGTAGAAGAAGAAAACTTCGAAGGCTTAATGATGTACCATTCTACCTGCC
ACGTATCGGCGAAGGTTGGGACTCAACTGGTGT

Gene 715. >OTTHUMT00007006375 cDNA sequence

CCGCCTTCGGCCCGGGCCTCCCGGGATGGCCGTGGCGCCTCTGCGGGGGGCGCTGCTGCT
GTGGCAGCTGCTGGCGGCGGGCGGCGCGCACTGGAGATCGGCCGCTTCGACCCGGAGCG
CGGGCGCGGGGCTGCGCCGTGCCAGGCGGTGGAGATCCCATGTGCCGCGGCATCGGCTA
CAACCTGACCCGCATGCCCAACCTGCTGGGCCACACGTGCGAGGGCGAGGCGGCTGCCGA
GCTAGCGGAGTTGCGCGCCGTGGTGACGTACGGCTGCCACAGCCACCTGCGCTTCTTCTCCT
GTGCTCGCTCTACGCGCCCATGTGCACCGACCAAGGTCTCGACGCCCATTCCCGCCTGCCG
GCCCATGTGCGAGCAGGCGCGCCTGCGCTGCGCGCCCATCATGGAGCAGTTCAACTTCGG
CTGGCCGGAATCGCTCGACTGCGCCCGGCTGCCACGCGCAACGACCCGACGCGCTGTG
CATGGAGGCGCCGAGAACGCCACGGCCGGCCCCGCGGAGCCCCACAAGGGCCTGGGCAT
GCTGCCCCTGGCGCCGCGGCCCGCGCGCCCTCCCGGAGACCTGGGCCCCGGGCGCGGGCGG
CAGTGGCACCTGCGAGAACCCCGAGAAGTTCCAGTACGTGGAGAAGAGCCGCTCGTGCGC
ACCGCGCTGCGGGCCCGGCGTGCAGGTGTTCTGGTCCCGGCGCGACAAGGACTTCGCGCT
GGTCTGGATGGCCGTGTGGTCCGGCGCTGTGCTTCTTCTCCACCGCCTTCACTGTGCTCAC
CTTCTTGCTGGAGCCCCACCGCTTCCAGTACCCCGAGCGCCCCATCATCTTCTCTCCAT
GTGCTACAACGTCTACTCGCTGGCCTTCTTGATCCGTGCGGTGGCCGGAGCGCAGAGCGT
GGCCTGTGACCAGGAGGCGGGCGCGCTCTACGTGATCCAGGAGGGCCTGGAGAACACGGG
CTGCACGCTGGTCTTCTACTGCTCTACTACTTCCGCATGGCCAGCTCGCTCTGGTGGGT
GGTCTGACGCTCACCTGGTTCTGGCTGCCGGAAGAAATGGGGCCACGAGGCCATCGA
GGCCACGGCAGCTATTTCCACATGGCTGCCTGGGGCCTGCCCGCGCTCAAGACCATCGT
CATCCTGACCCTGCGCAAGGTGGCGGGTGATGAGCTGACTGGGCTTTGCTACGTGGCCAG
CACGGATGCAGCAGCGCTCACGGGCTTCGTGCTGGTGCCCTCTCTGGCTACCTGGTGCT
GGGCAGTAGTTTCTCCTGACCGGCTTCGTGGCCCTCTTCCACATCCGCAAGATCATGAA
GACGGGCGGCACCAACACAGAGAAGCTGGAGAAGCTCATGGTCAAGATCGGGGTCTTCTC
CATCCTCTACACGGTGCCCGCCACCTGCGTCATCGTTTGCTATGTCTACGAACGCCTCAA
CATGGACTTCTGGCGCCTTCGGGCCACAGAGCAGCCATGCGCAGCGGCGCGGGGCCCGG
AGGCGGAGGGGACTGCTCGCTGCCAGGGGGCTCGGTGCCACCGTGGCGGTCTTCATGCT
CAAAATTTTCATGTCACTGGTGGTGGGGATCACCAGCGCGTCTGGGTGTGGAGCTCCAA
GACTTTCCAGACCTGGCAGAGCCTGTGCTACCGCAAGATAGCAGCTGGCCGGGCCCCGGG

FIGURE 1 (CONT'D)

CAAGGCCTGCCGCGCCCCCGGGAGCTACGGACGTGGCACGCACTGCCACTATAAGGCTCC
CACCGTGGTCTTGACATGACTAAGACGGACCCCTCTTTGGAGAACCCACACACCTCTA
GCCACACAGGCCTGGCGCGGGGTGGCTGCTGCCCCCTCCTTGCCCTCACGCCCCTGCCCC
CTGCATCCCCTAGAGACAGCTGACTAGCAGCTGCCAGCTGTCAAGGTCAGGCAAGTGAG
CACCGGGGACTGAGGATCAGGGCGGGACCCCGTGAGGCTCATTAGGGGAGATGGGGGTCT
CCCCTAATGCGGGGGCTGGACCAGGCTGAGTCCCCACAGGGTCTTAGTGAGGATGTGGA
GGGGCGGGGAGAGGGGTCCAGCCGGAGTTTATTTAATGATGTAATTTATTGTTGCGTTC
CTCTGGAAGCTGTGACTGGAATAAACCCCGCGTGGCACTGCTGAGTCCTCTCTGGCTGG
GAAGGGGGGAAGGTAGGAGG

Gene 716. >OTTHUMT00007007328 cDNA sequence

CAGAAACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTGTGAGCTTCTTGAGGGCTCC
CCAGCCATGCTTCCTGTACAGCCTGCAAACTTACAGAACCTGCTAAGGCCATCAAACCT
ATTGATCGGAAGTCAGTCATCAGATTTGCTCTGGGCAGGTGGTACTGAGTCTAAGCACT
GGATGAAGAAGATAGTAGAAAAAGTCTGGATGCTGGTGCCACTAATGTTGATCTAAAGC
TTAAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAAG
AAAACCTTCAAGGCTTAATCCTTACTTTACAGTCTCTTTACAGCTCTGAAACATCACACAT
CTAAGATTCAAGAGTTTGGCCGACCTAACTCGGGTTGAAACTTTTGGCTTTTGGGGGAAAG
CTCTGAGCTCACTTTGTGCACTGAGTGATGTACCATTTCTACCTGCCACGTATCGGCGA
AGGTTGGGACTCGACTGGTGTGTTGATCACGATGGGAAAATCATCCAGAAAACCCCTACC
CCCACCCAGAGGGACCAAGTCAGCGTGAAAGCAGTTATTTTCTACGCTACCTGTGCGCC
ATAAGGAATTTCAAAGGAATATTAAGAAGAAACGTGCTGCTTCCCCTTCGCCTTCTGCC
GTGATTGTGAGCTTCTTGAGGGCTCCCCAGCCATGCTTCCTGTACAGCCTGCAAACTTG
TCCAGGATGTAAGTACAGAGCTACGGGCATGCAGAAATTGGAAGATGAGGGAAGGCATCA
CAGAGGCTGTGGGG

Gene 717. >OTTHUMT00006011974 cDNA sequence

ACCTTGGCAGCTTTGCCAAGGCTACCTTCAATGCCATCTCCAGGACCTACAGCTCTGACT
TGTGGAAAGAGGATGTATTTACCAAGTCTCCCTATCAGGAATTCACTGGTCACCTTGTA
AGA

Gene 718. >OTTHUMT00007007330 cDNA sequence

TTACTAGAAAAAGAACTCTGTATTACAGAAAAAGCAACTGGGTACAAGGTACCTCAAAAT
CACGACCTACCAAATGCAGCATAGGCACAGAAAAAGAACAGTTTAAATAAGCTGAACCCC
TTATTGATGAAGAGATAGAGTTAACACAGGGATTTACCAATTGAACTCAGAGATTTTAAAC
CAGCTTATCAAAGCTAATTAAAAATGGGGTTGTGATATTGAAAATATAGCAAGAGAAGAAG
AGGGAAAAAGCTTACGGGAGGTCTTGAATACTCAACTGTGTTCTGGGAAAAACGCAATG
AGCTCCAGGACATAGACAAGATTATGGCTCAGAGTGAAAGGGAGAGATAAGAATTACAGAG
AATAATTTGCATCAGAAAAGCACCTGACAAAAGATCAGATGGTACAGAGCATCTAGCAC
CTTTTCTTCAGCTGAGGATATCATGGTACTAGTATAACAGAGGGAAAACTGTACTGAGG
AAGAGGATCATTCTGTACTTTGTGTGCTTGGATTCAACAAGGAAAAATATTATGATGAAA
TGCAATAGTGTAATCAAACTCTCCTCAGTTCAGATT

Gene 719. >OTTHUMT00007007332 cDNA sequence

AAAGGAAAGGAGGCCAAGGGGAAGAAGTTGGCTCTGGCCCCTGCTTTTGTGAAGAAGCAG
GAGGCCAAGAAAGTGGTGAATCCCCTGTTTGGAGAAAAGGCCTAAGAATTTTGGCATTGGA
CAGGACATCCAGCCCAAGAGACCTCACCTGCTTTGTGAAATGGCCCCGCTATATCAGG
TTGCAATGGCAGAGATCCATACTCTATAAGCAGCTGAAAGTGCTCCTGCGATTAAACCAG
TTCACCCAGGCCCTGGAAGGCCAAACAGCTACTCAGCTGCTTAAGCTGGCCCAAAATAC
AGACCAGAGACAAAGCAAGAGAAGAAGTGGAGGCTGTTGGCCAGGCAGAGTTGTGGGCA
AAGGGGACCTCCCCTGAAGAGACTACCTGTCTTTTCGAGCAGGAGTTAACACCGTCACCA
CCTTTGTGGATAACAAGAAAGCTCCGCTGGTGGTGACTACACGACATGGATCCCATTG
AGCTGACTGTTTTCTGCTGTCTGTGTCATAAAATGGGGGCCACTTGCTGCATTATCA
AGGGGAAGGCAAGACTGGGATGTCTAGTTACAGGAAGACCTACACCACTGTGCGACTTCA
CACAGGTAACTCAGAAGACAAAGGAGCTTTGGCTAAGCTGGTGGAAAGCTATCGGGACCA
ATTACAATGCCAGATACGATGAGACCCACTGTCACTGGGACGGCAATGTCTGGGTCCCA
AGTCTGTGGCTCACATTGCCAAGCTCGAAAAGGCAAAGGCTAAAGAACTTGCCACTAAA

Gene 720. >OTTHUMT00007007334 cDNA sequence

FIGURE 1 (CONT'D)

CATTCCTGTCTCAAGGCCACACCTTCCACCTGCAGTGGAGTCTTCCACACCCAGCGCTTC
GACCTTTACCAGCAGGCCTCCCCACCAGATGCCCTGCACTGGATACCTAAGCCTTGGGAA
TGGACACGGCCGCCACCTCGAGAAGGGCCCTCCCAAAGGCAGAGGAGCCTGGGTCCCAA
GGGGACAAGGAGCCTGGTTTGGCCCCACCC

Gene 721. >OTTHUMT00007007336 cDNA sequence

AAAAATCGAACCTGTGGTGCAGGACAGGATCCTGTGCCCTATATGATTTCTCTGATTAC
AAACTCTAAGAATGGTTTACTGTGGAGCAGTTGGAAGACTATTTGAATTTTGCAAACCAC
CTCTTGTGGGTTTTTACACCATTAACTTCTAATACTTCTTACTTTACTATCTTTCTT
CTCTACCTTACTATTATTTTCTACACATTTATAAGAGAAAGAACGTATTAAGAAGGCC
TACTCTCATAATTTATGGGATGGTGCAGGAACACGGAGGCAAGTCTGTGGGATGGGCAT
GCAGCAGTTTGGCATGGTAAGCGAGGATGCTTTCATCTCTGTGTTGCCATTATGTGTGC
TGCATTGGAACCTGTGTTACCATGCCATTTTATTGAC

Gene 722. >OTTHUMT00007007337 cDNA sequence

GAGCTCGCCCCCTGAGCCTGAGGAGACCTGGGTAGTGGAGACGCTGTGTGGGCTCAAGATG
AAGCTGAAGCAACAGCGAGTGTCAACCATCCTCCCTGAGCACCACAAGGACTTCAACAGT
CAGCTTGGCCCTGGGGTAGATCCAGCCCCCGCATAGGTCCTTTTGCTGGAAAAGGAAG
ATGGAGTGGTGGGACAAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCC
CCTGAGCCTGAGGAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAG
CGACGGCGAGTGTGCTCGTGTCCCTGAGCACCACGAGGCCCTTCAACAGGCTGCTTGAG
GATCCTGTCTATTAAAGATTCTCTGGCCTGGGACAAAGGTCTGAGGGTGTGCGACAAGTAT
CTCCTGGCTATGGTCATAGTGTATTTTCAAGCCGGGCGGCCTCCCTCCTGGCAATACCAA
TGCAATTCATTTCTTCTGGCTCTCTACCTGGCCAATGACATGGAGGAGGACGACGAGGAC
CCCAAACAAAACATCTTCTACTTCTGTATGGGAAGACCCGCTCTCGCATACCCTTGCTC
CGTAAGCGTCGGTTCAGTTATGCCGTTGCATGAACCCGAGGGCCAGGAAGAACCGCTCT
CAGATAGTCCTGTTCCAGAACTTTCGGTTCCAGTTCTTCTGTTTCATGAGCTGCAGGGCT
TGGGTTTCCCGGAGGAGTTGGAGGAGATCCAGGCTTATGACCCAGAGCACTGGGTGTGG
GCGCGAGATCGCGCTCGCCTTTCC

Gene 723. >OTTHUMT00007007338 cDNA sequence

CCCAGTGTCCAGGATGTAAGTAGAGAGCTACGGGCATGCAGAAGTTGGAAGATGAGGGAA
GGCATCACAGAGGCTGTGGGG

Gene 724. >OTTHUMT00007007356 cDNA sequence

AAAAGGAAGAGGGAATGTTTGGATGAATCTGATGATGAGCCAGAGAAGGAGCTCGCCCCCT
GAGCCTGAGGAGACCTGGGTGGCGGAGACGCTGTGTGGCCTCAAGATGAAGGCGAAGCGA
CGGCGAGTGTGCTCGTGTCTCCCTGAGTACTACGAGGCCTTCAACAGGCTGCTTGCCCCCT
GGGGTAGATCCCAGCCCCCACGTAGGTCCCTTGGCTGGAAAAGGAAGAGGGAATGTTTG
GATGAATCTGATGATGAGCCAGAGAAGGAGCTCGCCCCCTGAGCCTGAGGAGACCTGGGTG
GCGGAGACGCTGTGTGGCCTCAAGATGAAGGCGAAGCGACGGCGAGTGTGCTCGTGTCTC
CCTGAGTACTACGAGGCCTTCAACAGGCTGCTTGAGGATCCTGTCTATTAAAGACTCCTG
GCCTGGGACAAAGATCTGAGGGTGTGCGACAAGTATCTCCTGGCTATGGTCATAGCGTAT
TTCAGCCGGGCGGCCTCCCTCCTGGCAATACCAACGCATTCAATTTCTTCTGGCTCTC
TATCTGGCCAATGACATGGAGGAGGACGACGAGGCCCCCAAACAAAACATCTTCTACTTC
CTGTACGAGGAGACCCGCTCTCATATACCCTTGCTCAGTGAGCTTTGGTTCCAGTTATGC
CGTTACATGAACCCGAGGGCCAGGAAGAACTGCTCTCAGATAGCCTTGTTCCGGAAGTAT
CGTGAGCTTTGGTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAACTGCTCT
CAGATAGCCTTGTTCCGGAAGTATCGGTTCCACTTCTTTTGTTCATGCGCTGCAGGGCT
TGGGTTTCCCTGGAGGAGTTGGAAGAGATCCAGGCTTATGACCCAGAGCACTGGGTGTGG
GCGCGAGATCGCGCCACCTTTCC

Gene 725. >OTTHUMT00007007357 cDNA sequence

ATGGGGGGAAGCGGTTAAACCAGGGAGTCTGGAAGGGGACGACGCCCCCGGCCAGTCC
CTGTACGAGCGGTTAAGTCAAGGATGCTGGACATCTCGGGGACCGGGCGTGCTGAAG
GACGTATCCGAGAAGGAGCTGGAGACCTAGTGGCGCCTGATGCTTCGGTGCTAGTGAAA
TAGTATGGATACCTGGAACTTGGACAGACCTTCGATTCTAATTACTTTAGGAAAACCT
CCTCGGCTAATGAACTTGGAGAGGATATTACATTGTGGGGCATGGAGCTGGGCCTTCTG
AGCATGCAGAGAGGAGAGCTGGCCAGGTTTCTGTTCAAACCGAACTACGCCTATGGAACG

FIGURE 1 (CONT'D)

CTGGGCTCCCCTCCCTTGATCCCCCAAACCACTGTCTCTGTTCAAGATTGAGCTGCTT
GACTTCCTAGACTGTGCTGAGTCAGACAAGTTTTGTGCTCTCTCAGCT

Gene 726. >OTTHUMT00007007358 cDNA sequence

GCCGCTCCTGCCGTGCATGTTGGGGAGCCAGTACATGCAGGTGGGCTCCACACGGAGAGG
GGCGCAGACCCGGTGATAGGGCTTTACCTGGTACATCGGCATGGCGCAACCAAAGCAAGA
GAGGGTGGCGCGTGCCAGACACCAACGGTCGGAAACCGCCAGACACCAACGACACCAAGG
CTCGGAATACACGCCAGACCACGACGGAGGGCGACCACCTCCCTTCTGACCCTGCTGCGG
GCGTTTCGGAATAACACGAGTCCGGTGTGCTCTGATTGGTCCAGGCTCTTTGACGTCAC
GGACTCGACCTTTGACAGAGCCACTAGGCGAAAAGGAGAGACGGGAAGTATTTTTTCCGC
CCCCCGGAAAGGGTGGAGCACAACGTCGAAAGCAGCCAATGGGAGCCCAGGAGGCGGG
GCGCCTGTGGGAGCCGTTGAGGGCACTTTCCAGTCCCCGAGGCGGATCCGGTGTTCAT
CCTTGGAGAGAGCTGAGAGCTCGAGTACAGAACCTGCTAAGGCCATCAAACCTATTGATC
GGAAGTCAGTCCATCAGATTTGCTCTGGGCCGGTGGTACTGAGTCTAAGCACTGCGGTGA
AGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCACTAATATTGATCTAAAGCTTAAGG
ACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGGATGTGGGGTAGAAGAAGAAACT
TCGAAGGCTTAACCTCTGAAACATCACACATCTAAGATTCAAGAGTTTGCCGACCTAACTC
GGGTGAAACTTTTTGGCTTTTCGGGGGAAAGCTCTGAGCTCACTTTGTGCACTGAGTGATG
TCACCATTTCTACCTGCCACGTATCGGCGAAGGTTGGGACTCGACTGGTGTTCGATCAG
ATGGGAAAATCATCCAGAAAACCCCTACCCCCACCCAGAGGGACCACAGTCAGCGTGA
AGCAGTTATTTTCTACGCTACCTGTGCGCCATAAGGAATTTCAAAGGAATATTAAGAAGA
AACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTGTGAGTTTCTTGAGGGCTCCCCAG
CCATGCTTCCTGTACAGCCTGCAAACTGACTCCTAGAAAGTACCCCAACCCACCCCTGCT
CCTTGGAGGACAACGTGATCACTGTATTTCAGCTCTGTCAAGAATGGTCCAGGTTCTTCTA
GA

Gene 727. >OTTHUMT00007007377 cDNA sequence

ATGGGGCTGTACGCTGCGGTGGCAGGCGTGCTGGCCGGCGTGGAGAGCCGCCAGGGCTCT
ATCAAGGGGCTGGTGTACTCCAGCAACTTCAGAACGTGAAGCAGCTGTACGCGCTGGTG
TGCGAAACGCAGCGCTACTCCGCCGTGCTGGATGCCGTGATCTCCAGCGCCGGCCTCCTC
AGTGCGAAGAAGCTGCAGCCGCACCTGGCCAAGGTGTATGAGTTGTTGGGAAAGGGCTTT
CGAGGGGGTGGGGGCCAATGGAAGGCTCTGTTGGGACGGCACCAGGCGAGGTGTTGAGTT
GGCTCGGCTCAAGGTTCTTCGGGGTGTGAGCTGGCATGAGGACCTGTTGGAAGTGGGATC
CAGGCCTGGTCCAGCCTCCCAGCTGCCTCGATTTGTGCGTGTGAACACTCTCAAGACCTG
CTCCGTTTATGTAGTTATTTCAAGAGACAAGGTTTCTCCTATCAGGGTCCGGCTTCCAGC
CTTGATGACTTACAAGCCCTCAAGGGGAAGCATTTCCTCCTGGACTCCTTGATGCCGGAG
CTGCTGGTGTTCCTCGCCAGACAGATCTGCATGAACACCCACTGTACCGGGCCGGACAC
CTCATTCTGCAGGACAGGGCCAGCTGTCTCCAGCCATGCTGCTGGAACCCCGCCAGGCT
CCCATGTATCGATGCCTGTGCCGCCAGGCAATAAGACCAGTCACTTGCTGCTCTTC
TGAAGAACCAAGGGAAGATCTTTGCCTTTGACCTGGATGCCAAGCGGCTGGCATCCATGG
CCACGCTGCTGGCCTGGGTTGGCGTCTCCTGCTGTGAGCTGGCTGAGGAGGACTTCCTGG
CGGTCTCCCCCTTAGATCCGCGCTATCGTGAGGTCCACTATGTCCTGCTGGATCCTTCCT
GCAGTGGCTCGGGTATGCCGAGCAGACAGCTGGAGGATCCCGGGGAGGGACACCTAGCC
CGGTGCGTCTGCATGCCCTGGCAGGGTTCAGCAGCGAGCCCTGTGCCACGCGCTCACTT
TCCCTTCCCTGCAGCGGCTCGTCTACTCCATGTGCTCCCTCTGCCAGGAGGAGAATGAAG
ACATGGTACCAGATGCGCTGCAGCAGAACCCGGGCGCCTTCAGGCTAGCTCCCGCCCTGC
CTGCCCGGCCCCACCGAGGCCTGAGCACGTTCCCGGGTGCCGAGCACTGCCTCCGGGCTT
CCCCAAGACCACGCTTAGCGGTGGCTTCTTCGTTGCTGTAATTGAACGGGTCGAGATGC
CG

Gene 728. >OTTHUMT00007007380 cDNA sequence

ATGTGTCCTTGGCGGCCTAGACTAGGCCGTGCTGTATGGTGAGCCCCAGGGAGGCGGAT
CTGGGCCCCCAGAAGGACACCCGCCTGGATTTGCCCCGTAGGCCCGGCCGGGCCCCCTCG
GGAGCAGAACAGCCTTGGTGAGGTGGACAGGAGGGGACCTCGCGAGCAGACGCGCGCGCC
AGCGACAGCAGCCCCGCCCCGGCCTCTCGGGAGCCGGGGGGCAGAGGCTGCGGAGCCCCA
GGAGGGTCTATCAGCCACAGTCTCTGCATGTTTCCAAGAGCAACAGGAAATGAACACATT
GCAGGGGCCAGTGTCAATCAAAGATGTGGCTGTGGATTTCACCCAGGAGGAGTGGCGGCA

FIGURE 1 (CONT'D)

ACTGGACCCTGATGAGAAGATAGCATACGGGGATGTGATGTTGGAGAACTACAGCCATCT
AGTTTCTGTGGGGTATGATTATCACCAAGCCAAACATCATCATGGAGTGGAGGTGAAGGA
AGTGGAGCAGGGAGAGGAGCCGTGGATAATGGAAGGTGAATTTCCATGTCAACATAGTCC
AGAACCTGCTAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTTGCTCTGG
GCCAGTGGTACTGAGTCTAAGCACTGCAGTGAAGGAGTTAGTAGAAAACAGTCTGGATGC
TGGTGCCACTAATATTGATCTAAAGCTTAAGGACTATGGAGTGGATCTCATTGAAGTTTC
AGACAATGGATGTGGGGTAGAAGAAGAAAACCTTTGAAGGCTTAATCTCTTTTCAGCTCTGA
AACATCACACATG

Gene 729. >OTTHUMT00007007381 cDNA sequence

CAAGATGATGATTATTCTCCACCGTCTAAGAGACCAAAGGCCAATGAGCTACCGCAGCCA
CCAGTCCCAGAACCCGCCAATGCTGGGAAGCGGAAAGTGAGGGAGTTCAACTTCGAGAAA
TGAATGCTCGCATCACTGATCTACGTAAACAAGTTGAAGAATTGTTTGAAAGGAAATAT
GCTCAAGCCATAAAAGCCAAAGGTCGGTGACGATCCCGTACCCTCTTTTCTAGTCTCAT
GTTGAAGATCTTTATGTAGAAGGACTTCCTGAAGGAATTCCTTTTAGAAGGCCATCTACT
TACGGAATTCCTCGCTGGAGAGGATATTACTTGCAAAGGAAAGGATTCGTTTTGTGATT
AAGAAACATGAGCTTCTGAGTTCAACACGTGAAGATTTACAGCTTGATAAGCCAGCTTCA
GGAGTAAAGGAAGAATGGTATGCCAGAATCACTAAATTAAGAAAGATGGTGGATCAGCTT
TTCTGCAAAAAATTTGCGGAAGCCTTGGGGAGCACTGAAGCCAAGGCTGTACCGTACCAA
AAATTTGAGGCACACCCGAATGATCTGTACGTGGAAGGACTGCCAGAAAAATTCTTTTC
CGAAGTCCCTCATGGTATGGAATCCCAGGCTGGAAAAATCATTCAAGTGGGCAATCGA
ATTAAATTTGTTATTAAAGACAGAACTTCTGACTCACAGTACCACTGAAGTTACTCAG
CCAAGAACGAATACACCAAGTCAAAGAAGATTGGAATGTCAGAATTACCAAGCTACGGAAG
CAAGTGAAGAGATTTTTAATTTGAAATTTGCTCAAGCTCTTGGACTCACCGAGGCAGTA
AAAGTACCATATCCTGTGTTTGAATCAAACCCGGAGTTCTTGTATGTGGAAGGCTTGCCA
GAGGGGATTCCCTTCGAAGCCCTACCTGGTTTGAATTCACGACTTGAAAGGATCGTC
CACGGGAGTAATAAAATCAAGTTTCGTTGTTAAAAAACCTGAACTAGTTATTTCTACTTG
CCTCCTGGGATGGCTAGTAAATAAACACTAAAGCTTTGCAGTCCCCCAAAGACCACGA
AGTCCTGGGAGTAATTCAAAGGTTCTGAAATTGAGGTACCGTGGAAGGCCCTAATAAC
AACAATCCTCAAACCTCAGCTGTTTCGAACCCCCGACCCAGACTAACGGTTCTAACGTTCC
TTCAAGCCACGAGGGAGAGAGTTTTCTTTGAGGCCTGGAATGCCAAAATCACGGACCTA
AAACAGAAAGTTGAAAATCTCTTCAATGAGAAATGTGGGAAGCTCTTGGCCTTAAACAA
GCTGTGAAGGTGCCGTTTCGCGTTATTTGAGTCTTTCCCGGAAGACTTTTATGTGGAAGGC
TTACCTGAGGGTGTGCCATTCCGAAGACCATCGACTTTTGGCATTCCGAGGCTGGAGAAG
ATACTCAGAAACAAAGCCAAAATTAAGTTTCATCATTAAAAAGCCCGAAATGTTTGAGACG
GCGATTAAGGAGAGCACCTCCTCTAAGAGCCCTCCAGAAAAATAAATTCATCACCCTAAT
GTTAATACTACTGCATCAGGTGTTGAAGACCTTAACATCATTGAGGTGACAATTCAGAT
GATGATAATGAAAGACTCTCGAAAGTTGAAAAAGCTAGACAGCTAAGAGAACAAAGTGAAT
GACCTCTTTAGTCGGAATTTGGTGAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCC
TACAGGAAAATCACAATTAACCCCTGGCTGTGTGGTGGTTGATGGCATGCCCCCGGGGGTG
TCCTTCAAAGCCCCCAGCTACCTGGAAATCAGCTCCATGAGAAGGATCTTAGACTCTGCC
GAGTTTATCAAATTCACGGTCATTAGACCATTTCCAGGACTTGTGATTAATAACAGCTG
GTTGATCAGAGTGAGTCAAAGGCCCGTGATACAAGAATCAGCTGAACCAAGCCAGTTG
GAAGTTCAGCCACAGAAGAAATAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAA
CCAGACCCACGTGG

Gene 730. >OTTHUMT00007007383 cDNA sequence

AGCGATGTCAACATTTCTACCTGCCACGCGTCGGTGAAGGTTGGGACTCGACTGGTGT
GATCACGATGGGAAAATCATCCAGGAAACCCCTACCCCCACCCAGAGGGACCACAGTC
AGCGTGAAGCAGTTATTTTCTACGCTACCTGTGCGCCATAAGGAATTTCAAAGGAATATT
AAGAAGGTACAACGTGCCTGCTTCCCTTTCGCTTCTGCCGTGATTGTGAGTTTCTGAG
GCCTCCCAGCCATGCTTCTGTACAGCCTGCAGAACTGACTCCTAGAAGGACCCACCC
CCCTCCCCCACCCTGCTCCTAGGAGGACAACGTGATCACTGTATTGAGCTCATCAAG
AATGGTCCAGGTTCTTCTAGA

Gene 731. >OTTHUMT00007006727 cDNA sequence

GCCACTTCCGGGAGTCGGAAAGGAAAGCTGTGGGACCATCCTGGCAACCCCGGTGTTTGG

FIGURE 1 (CONT'D)

CTGGGTTCTAGCGTAGCCGTCTGTGTGGCCGGTGGGGGACCTGCGGTTCGGAGTGGGAGGG
CCAGTCTGCACCCAAGAGGTGGAAGAGGACGGGCTTTAGGCTGGAAGCGCCTTAGAGGAG
CCATTTTTTCAGGTGGGGCCCCAGGCAGAGGCTCCGACAGGGAGCCTGGCCATAGTCGCG
CAGCCGGGGAGGTGGAGCGCGTCCCAGACCCGAGCCCCGACCTCAGCCAAACCCATTCC
TTCTGCCCTTGAGGGCCAGAGGGGACTCTGAGCTCCGGAAGGATGCCTGGTTTGCTTTT
ATGTGAACCAACAGAGCTTTACAACATCCTGAATCAGGCCACAAAACCTCTCCAGATTAAAC
AGACCCCAACTATCTCTGTTTATTGGATGTCCGTTCCAAATGGGAGTATGACGAAAGCCA
TGTGATCACTGCCCTTCGAGTGAAGAAGAAAATAATGAATATCTTCTCCCGGAGTCTGT
GGACCTGGAGTGTGTGAAGTACTGCGTGGTGTATGATAACAACAGCAGCACCTGGAGAT
ACTCTTAAAGATGATGATGATGATTGAGCTCTGATGGTGTATGGCAAAGATCTTGTGCC
TCAAGCAGCCATTGAGTATGGCAGGATCCTGACCCGCTCACCACCCACCCCGTCTACAT
CCTGAAAGGGGGCTATGAGCGCTTCTCAGGCACGTACCACCTTCTCCGGACCCAGAAGAT
CATCTGGATGCCTCAGGAACTGGATGCATTTTCAAGCCATACCCATTGAAATCGTGCCAGG
GAAGGTCTTCGTTGGCAATTTTCAAGCCTGTGACCCCAAGATTGAGAAGGACTTGAA
AATCAAAGCCCATGTCAATGTCTCCATGGATACAGGGCCCTTTTTTTCAGGCGATGCTGA
CAAGCTTCTGCACATCCGGATAGAAGATTCCCCGGAAGCCAGATTCTTCCCTTCTTACG
CCACATGTGTCACTTCATTGAAATTACCATCACCTTGGCTCTGTCACTTCTGATCTTTTC
CACCCAAGGTATCAGCCGAGTTGTGCCGCCATCATAGCCTACCTCATGCATAGTAACGA
GCAGACCTTGAGAGGTCTGGGCCCTATGTCAAGAAGTGCAAAAACAACATGTGTCAAAA
TCGGGGATTGGTGAGCCAGCTGCTGGAATGGGAGAAGACTATCCTTGGAGATTCCATCAC
AAACATCATGGATCCGCTCTACTGATCTTCTCCGAGGCCACCGAAGGGTACTGAAGAGC
CTCACCTGGGGGCATTTTGTGGGTGGAGGGCCAGAGTGTGTATACCCAGGCTTGTCTGGA
AGGAGAAGGCCTTTGCTGCCTGAAAGTCTCA

Gene 732. >OTTHUMT00007007384 cDNA sequence

TGTCCCATCTGCCTGGAGGTCTTCAAGGAGCCCCCTGATGCTGCAGTGTGGCCACTCTTAC
TGCAAGGGCTGCCTGGTTTCCCTGTCTGCTGCCACCTGGATGCCGAGCTGCGCTGCCCCGTG
TGCCGGCAGGCGGTGGACGGCAGCAGCTCCCTGCCCAACGTCTCCCTGGCCAGGGTGATC
GAAGCCCTGAGGCTCCCTGGGGACCCGGAGCCCAAGGTCTGCGTGCACCACCGGAACCCG
CTCAGCCTTTTCTGCGAGAAGGACCAGGAGCTCATCTGTGGCCTCTGCGGTCTGCTGGGC
TCCCACCAACACCACCCGGTCACGCCCCGTCTCCACCGTCTACAGCCGCATGAAGGTGGGG
AGTGAGGGTGCAGGGGCGGTGGAGAGGCCGCGGGGACCAGATCCTGTGCTCTCTGGTGC
CATCACCTGGCACCAAAAGGATCCAGCTATCCTCGATTTCCCTGCAGCTCTGGGTGATCC
GCCGCGAGTTCCAGGAGCTGCACCACCTGGTGGATGAGGAGAAGGCCGCTGCCTGGAGG
GGATAGGGGGTCAACCCCGTGGCCTGGTGGCCTCCCTGGACATGCAGCTGGAGCAGGCCC
AGGGAACCCGGGAGCGGTGGCCCAAGCCGAGTGTGTGCTGGAACAAGGAAAGT CATGTC
CCTGCCTTCAAGGGTCTCGTAGATGGGTGGGGAGGCAGATGGTGAACTGTGGGTACCTAG
AACAGCAGAAGTTCACTCAAGCTACAGAAATACTAGAGGAGGGTAGCTCATGCCTGCAAT
CCAGTACTTTGGGAAGCCAAGGCAGGAGGATTGCTTGAGGCCAGGAGTTGAGACCAGC
CTGGCCAATGTACCCCGGAGCCTCTCAAGTTGGACCTGCCACTGCCACCCACTCCTGG
AGCTCTCCAAGGGCAACACGGTGGTGCAGTGGGGCTTCTGGCCAGCGGCGAGCCAGCC
AGCCTGAGCGCTTCGACTACAGCACCTGCGTCTGGCCAGCCGCGGCTTCTCCTGCGGCC
GCCACTACTGGGAGGTGGTGGTGGGCAGCAAGAGCGACTGGCGCCTGGGGGTCAACAAGG
GCACAGCCAGCCGTAAGGGCAAGCTGAACAGGTCCCCCGAGCACGGCGTGTGGCTGATCG
GCCTGAAGGAGGGCCGGGTGTACGAAGCCTTTGCCTGCCCCCGGGTACCCCTGCCCGTGG
CCGGCCACCCCAACCGCATCGGGCTCTACCTGCACTATGAGCAGGGCGAACTCACCTTCT
TCGATGCCGACCGCCCCGATGACCTGCGGCCGCTCTACACCTTCAGGCCGACTTCAGG
GCAAGCTCTACCCCATCTGGACACCTGCTGGCACGAGAGGGGCAGCAACTCGCTGCCCA
TGGTGTGTCGCCCGCCAGC

Gene 733. >OTTHUMT00007006731 cDNA sequence

CCACCCAGTCATGGGGGACACCTTCATCCGTACATCGCCCTGCTGGGCTTTGAGAAGCG
CTTCGTACCCAGCCAGCACTATGTGTACATGTTCTGGTGAAATGGCAGGACCTGTGCGA
GAAGGTGGTCTACCGGCGCTTCACCGAGATCTACGAGTTCATAAAACCTTAAAAGAAAT
GTTCCCTATTGAGGCAGGGGCGATCAATCCAGAGAACAGGATCATCCCCACCTCCAGC
TCCCAAGTGGTTTGACGGGCAGCGGGCCCGGAGAACCACAGGGCACACTTACCGAGTA

FIGURE 1 (CONT'D)

CTGCGGCACGCTCATGAGCCTGCCACCAAGATCTCCGCTGTCCCCACCTCCTTGACTT
 CTTCAAGGTGCGCCCTGATGACCTCAAGCTCCCCACGGACAACCAGACAAAAAGCCAGA
 GACATACTTGATGCCCAAAGATGGCAAGAGTACCGCGACAGACATCACCGGCCCCATCAT
 CCTGCAGACGTACCGCGCCATTGCCAACCTACGAGAAGACCTCGGGCTCCGAGATGGCTCT
 GTCCACGGGGGACGTGGTGGAGGTCTGTGAGAAGAGCGAGAGCGGTTGGTGGTTCTGTCA
 GATGAAAGCAAAGCGAGGCTGGATCCCAGCATCCTTCCTCGAGCCCCTGGACAGTCCTGA
 CGAGACGGAAGACCCTGAGCCCCAATATGCAGGTGAGCCATACGTGCGCATCAAGGCCTA
 CACTGCTGTGGAGGGGGACGAGGTGTCCCTGCTCGAGGGTGAAGCTGTTGAGGTAATTCA
 CAAGCTCCTGGACGGCTGGTGGGTCTATCAGGAAAGACGACGTCAAGGCTACTTCCCGTC
 CATGTACCTGCAAAAGTCAGGGCAAGACGTGTCCAGGCCCCAACGCCAGATCAAGCGGGG
 GCGCGCGCCCCCGCAGGTCTGTCCATCCGCAACGTGCACAGCATCCACCAGCGGTGCGGGAA
 GCGCCTCAGCCAGGACGCCTATCGCCGCAACAGCGTCCGTTTTCTGCAGCAGCGACGCG
 CCAGGCGCGGCCGGGACCGCAGAGCCCCGGGAGCCCGCTCGAGGAGGAGCGGCAGACGCA
 GCGCTCTAAACCGCAGCCGGCGGTGCCCCCGCGGCCGAGCGCCGACCTCATCCTGAACCG
 CTGCAGCGAGAGCACCAAGCGGAAGCTGGCGTCTGCCGTCTGAGGCTGGAGCGCAGTCCC
 CAGCTAGCGTCTCGGCCCTTGCCGCCCGTGCCTGTATATACGTGTTCTATAGAGCCTGG
 CGTCTGGACGCGGAGGGCAGCCCCGACCCCTGTCCAGCGCGGCTCCCGCCACCCTCAATA
 AATGTTGCTTGGAGTGGA

Gene 734. >OTTHUMT00007006732 cDNA sequence

CGACTTCCTCTTTCCAGTGCATTTAAGGCGCAGCCTGGAAGTGCCAGGGAGCACTGGAGG
 CCACCCAGTCATGGGGGACACCTTCATCCGTACATCGCCCTGCTGGGCTTTGAGAAGCG
 CTTTCGTACCCAGCCAGCACTATGTGTACATGTTCTTGGTGAAATGGCAGGACCTGTGCGA
 GAAGGTGGTCTACCGGCGCTTACCAGAGATCTACGAGTTCATATAAACCTTAAAAGAAAT
 GTTCCCTATTGAGGCGGGGCGATCAATCCAGAGAACAGGATCATCCCCACCTCCCAGC
 TCCCAAGTGGTTTTGACGGGCAGCGGGCCCGGAGAACCGCCAGGGCACACTTACCGAGTA
 CTGCGGCACGCTCATGAGCCTGCCACCAAGATCTCCGCTGTCCCCACCTCCTCGACTT
 CTTCAAGGTGCGCCCTGATGACCTCAAGCTCCCCACGGACAACCAGACAAAAAGCCAGA
 GACATACTTGATGCCCAAAGATGGCAAGAGTACCGCGACAGACATCACCGGCCCCATCAT
 CCTGCAGACGTACCGCGCCATTGCCAACCTACGAGAAGACCTCGGGCTCCGAGATGGCTCT
 GTCCACGGGGGACGTGGTGGAGGTCTGTAGAGAAGAGCGAGAGCGGTTGGTGGTTCTGTCA
 GATGAAAGCAAAGCGAGGCTGGATCCCAGCGTCTTCTCCTCGAGCCCCTGGACAGTCCTGA
 CGAGACGGAAGACCCTGAGCCCCAATATGCAGGTGAGCCATACGTGCGCATCAAGGCCTA
 CACTGCTGTGGAGGGGGACGAGGTGTCCCTGCTCGAGGGTGAAGCTGTTGAGGTCAATTCA
 CAAGCTCCTGGACGGCTGGTGGGTCTATCAGGAAAGACGACGTCAAGGCTACTTCCCGTC
 CATGTACCTGCAAAAGTCAGGGCAAGACGTGTCCAGGCCCCAACGCCAGATCAAGCGGGG
 GCGCGCGCCCCCGCAGGTCTGTCCATCCGCAACGCGCACAGCATCCACCAGCGGTGCGGGAA
 GCGCCTCAGCCAGGACGCCTATCGCCGCAACAGCGTCCGTTTTCTGCAGCAGCGACGCG
 CCAGGCGCGGCCGGGACCGCAGAGCCCCGGGAGCCCGCTCGAGGAGGAGCGGCAGACGCA
 GCGCTCTAAACCGCAGCCGGCGGTGCCCCCGCGGCCGAGCGCCGACCTCATCCTGAACCG
 CTGCAGCGAGAGCACCAAGCGGAAGCTGGCGTCTGCCGTCTGAGGCTGGAGCGCAGTCCC
 CAGCTAGCGTCTCGGCCCTTGCCGCCCGTGCCTGTACATACGTGTTCTATAGAGCCTGG
 CGTCTGGACGCGGAGGGCAGCCCCGACCCCTGTCCAGCGCGGCTCCCGCCACCCTCAATA
 AATGTTGCTTGGAGTG

Gene 735. >OTTHUMT00007006736 cDNA sequence

GGGGGCGACGGCCGCTGTGACGCTGCGGCGGCGGGCGGGCGGGCGGCGGTGAGGCGC
 GCGATCCCCGGTGTCTTGGGAGCAGTGCCCCGGCCCCCGCGCTCCCGCCGCCCATGT
 CGGGCCGGTCCGTCCGGGCGGAGACCCGAGCCGGGCCAAGGACGACATCAAGAAGGTGA
 TGGCGGCCATCGAGAAAGTGCGGAAATGGGAGAAGAAGTGGGTGACTGTGGGTGACAGT
 CCCTGAGGATATTAAAGTGGGTTCTGTGTACAGACAGCAAGGAGAAAGAAAGTCAAAAT
 CGAACAGTTCAGCAGCCCCGAGAACCTAATGGCTTTCCTTCTGATGCCTCAGCCAATTCT
 CTCTCCTTCTTGAATTCCAGGACGAAAACAGCAACCAGAGTTCGGTGTCTGACGTCTATC
 AGCTTAAGGTGGACAGCAGCACTCAAGCCCCAGCCCCCAGCAGAGTGAGTCCCTGA
 GCCCAGCACACCTCCGACTTCCGCACGGATGACTCCAGCCCCAACGCTGGGCCAGG
 AGATCCTGGAGGAGCCCTCCCTGCCCTCCTCGGAAGTTGCTGATGAACCTCCTACCCTCA

FIGURE 1 (CONT'D)

CCAAGGAAGAACCAGTTCCACTAGAGACACAGGTCGTTGAGGAAGAGGAAGACTCAGGTG
CCCCGCCCCCTGAAGCGCTTCTGTGTGGACCAACCCACAGTGCCGCAGACGGCGTCAGAAA
GCTAGCACCATCCCGGCCCTCCGCCTCCTGGCCCTGCCTCTATTTATTGCATTCTGGTTTC
TGGCCGCGCCGCGTTGCTGGGGTAAGGGCAAGCACTGGGGTCAAGAGCCTGCACACATGA
GCC'TTCCGGGCTGGAAGGCTGGCGTAGGACTTGGGGCTGTAGCATCATCTTCTGACCCCT
GGCACCTGTGTCTACTTGCTCCCAGAAAGAGGAGCGCTCATGTCTTTTTTTGACCCCAAG
TTGGCTGGAGCATCGGCCACCCCAAGATTCTGTGACCTCCAGGCAGCAGTCTCTGCT
CCAGAACTCTTGACGGAGCTGCTGGCAGCTTCTGCGAGAAGAGAGAGATGTGGAAGGCA
CTTCTAGAAGAGAGCGTGCTCAGGTTACTTTGAACTTGAACGGAGACTGTAGACTCCCG
GACTTTCCCCTAGGACTGGGGGCCCTGTAGGCTGCTGTTGGAGGACTGGGTAGAGACATT
GGAGGGAAGGGAAGGGCTTTTCTCCACACAAGGGCAGAGAGTCCGTCTAGATTTCTTGCT
GTCTTGCCAGCTCTGCCCATGCCTGAGGTGGTCCCTACCTCTCACGGGCACCCTAGCTGCT
GACAGCCCTTTGTGGCCGCCGTCCCATCCCCTGCCCTCAGCACACACATCTGCACACAC
GCAGCTTTGTTCTCACCTCTACCTGTCACTCCAGCATCCCTGCTCTTGTCAAACTGC
CCCAGCAAGAATTTGAGGTTCTGACAACAGTACCCATCCCCCACAGTACCCCTTCAGCTC
AGTTTCTAGAAAGCTCCCTTTTCTTTGAAATCTGCATGTTGAAATTGAAC'TTTGTGATTTT
ATTTTTTGTTCAAAAAAGTTTAAAGAAAATGAAAATGGGCAACAGTGAGTGAAGACATAT
TTTAGCACTGAATAGAATATTTTTTAAATTTAAACTATTTGAAATATG

Gene 736. >OTTHUMT00007006748 cDNA sequence

CAAAGCCACAGGCAGGTG CAGGCGCAGCCGCGGAGAGCGTATGGAGCCGAGCCGTTAG
CGCGCGCCCGTCCGTGAGTCAGTCCGTCCGTCCGTCCGTCCGTCCGGGCGCCGAGCTCCC
GCCAGGCCCAGCGCCCCCGCCCCCTCGTCTCCCCGCACCCGGAGCCACCCGGTGGAGCGG
GCC'TTGCCGCGGCAGCCATGTCCATGGGCCTGGAGATCACGGGCACCGCGCTGGCCGTG
TGGGCTGGCTGGGCACCATCGTGTGCTGCGCGTTGCCCATGTGGCGCGTGTGGCCCTTCA
TCGGCAGCAACATCATCACGTGCGAGAACATCTGGGAGGGCCTGTGGATGAACTGCGTGG
TGCAGAGCACCGGCCAGATGCAGTGC AAGGTGTACGACTCGCTGCTGGCACTGCCACAGG
ACCTTCAGGCGGCCCGCGCCCTCATCGTGGTGGCCATCCTGCTGGCCGCCCTTCGGGCTGC
TAGTGGCGCTGGTGGGCGCCAGTGCACCAACTGCGTGCAGGACGACACGGCCAAGGCCA
AGATCACCATCGTGGCAGGCGTGCTGTTCTCTCGCCGCCCTGCTCACCTCGTGCCGG
TGTCTGGTTCGGCCAACACCATTAATCCGGGACTTCTACAACCCCGTGGTGCCCGAGGCGC
AGAAGCGCGAGATGGGCGCGGGCCTGTACGTGGGCTGGGCGGCCGCGGCGCTGCAGCTGC
TGGGGGGCGCGCTGCTCTGCTGCTCGTGTCCCCCACGCGAGAAGAAGTACACGGCCACCA
AGGTGCTCTACTCCGCGCGCGCTCCACCGGCCCGGGAGCCAGCCTGGGCACAGGCTACG
ACCGCAAGGACTACGTCTAAGGGACAGACGCAGGGAGACCCACCACCACCACCACCACC
AACACCACCACCACCACCGCGAGCTGGAGCGCGCACCAGGCCATCCAGCGTGCAGCCTTG
CCTCGGAGGCCAGCCACCCCCAGAAGCCAGGAAGCCCCCGCGCTGGACTGGGGCAGCTT
CCCCAGCAGCCACGGCTTTGCGGGCCGGGCAGTTCGACTTTCGGGGCCAGGGACCAACCTG
CATGGACTGTGAAACCTCACCTTCTGAGACACGGGGCTGGGTGACCGCCAATACTTGA
CCACCCCGTTCGAGCCCATCGGGCCGCTGCCCCCATGCTCGCGCTGGGCAGGGACCGGCA
GCCCTGGAAGGGGCACCTTGATATTTTCAATAAAAGCCTTTTCGTTTTTGCA

Gene 737. >OTTHUMT00007006749 cDNA sequence

GGCAGCTGTGCGCTGGAAGGAAGTGGTCTGCTCACACTTGCTGGCTTGCGCATCAGGACT
GGCTTTATCTCCTGACTCACGGTGCAAAGGTGCACTCTGCGAACGTTAAGTCCGTCCCCA
GCGCTTGGAATCCTACGGCCCCCACAGCCGGATCCCCCAGCCTTCCAGGTCTCAACTC
CCGTGGACGCTGAAACAATGGCCTCCATGGGGCTACAGGTAATGGGCATCGCGCTGGCCGT
CCTGGGCTGGCTGGCCGTATGCTGTGCTGCGCGCTGCCATGTGGCGCGTGACGGCCTT
CATCGGCAGCAACATTGTACCTCGCAGACCATCTGGGAGGGCCTATGGATGAACTGCGT
GGTGCAGAGCACCGGCCAGATGCAGTGCAAGGTGTACGACTCGCTGCTGGCACTGCCGCA
GGACCTGCAGGCGGCCCGCGCCCTCGTCATCATCAGCATCATCGTGGCTGCTCTGGGCGT
GCTGCTGTCCGTGGTGGGGGGCAAGTGTACCAACTGCCTGGAGGATGAAAGCGCCAAGGC
CAAGACCATGATCGTGGCGGGCGTGGTGTTCCTGTTGGCCGGCCTTATGGTGATAGTGCC
GGTGTCTTGACGGCCCAACATCATCCAAGACTTCTACAATCCGCTGGTGGCCTCCGG
GCAGAAGCGGGAGATGGGTGCCTCGCTCTACGTGGCTGGGCGGCCTCCGGCCTGCTGCT
CCTTGGCGGGGGGGCTGCTTTGCTGCAACTGTCCACCCCGCACAGACAAGCCTTACTCCG

FIGURE 1 (CONT'D)

CAAGTATTCTGCTGCCCCGCTCTGCTGCTGCCAGCAACTACGTGTAAGGTGCCACGGCTCC
 ACTCTGTTCTCTCTGCTTTTGTCTTCCCTGGACTGAGCTCAGCGCAGGCTGTGACCCCA
 GGAGGGCCCTGCCACGGGCCACTGGCTGCTGGGGACTGGGGACTGGGCAGAGACTGAGCC
 AGGCAGGAAGGCAGCAGCCTTCAGCCTCTCTGGCCCACTCGGACAACTTCCCAAGGCCGC
 CTCTGCTAGCAAGAACAGAGTCCACCCTCCTCTGGATATTGGGGAGGGACGGAAGTGAC
 AGGGTGTGGTGGTGGAGTGGGGAGCTGGCTTCTGCTGGCCAGGATAGCTTAACCCTGACT
 TTGGGATCTGCCTGCATCGGCGTTGGCCACTGTCCCCATTTACATTTTCCCACTCTGTC
 TGCCTGCATCTCCTCTGTTCCGGGTAGGCCTTGATATCACCTCTGGGACTGTGCCTTGCT
 CACCGAAACCCGCGCCAGGAGTATGGCTGAGGCCTTGCCACCCACCTGCCTGGGAAGT
 GCAGAGTGGATGGACGGGTTTAGAGGGGAGGGGCGAAGGTGCTGTAAACAGGTTTGGGCA
 GTGGTGGGGGAGGGGGCCAGAGAGGCGGCTCAGGTTGCCAGCTCTGTGGCCTCAGGACT
 CTCTGCCTCACCCGCTTCAGCCAGGGCCCCCTGGAGACTGATCCCTCTGAGTCCTCTGC
 CCCTTCCAAGGACACTAATGAGCCTGGGAGGGTGGCAGGGAGGAGGGGACAGCTTCAACC
 TTGGAAGTCCTGGGGTTTTTCTCTTCTTCTTTGTGGTTTCTGTTTTGTAAATTTAAGAA
 GAGCTATTCTACTGTAATTATTATTATTTTCTACAATAAATGGGACCTGTGCACAGGA
 Gene 738. >OTTHUMT00007006751 cDNA sequence
 GGCCAGGCCGCGCCCCGCGTGCCTGCGCGGCCCGGCAGAGCCGTGCGGGCGCCCGCGTA
 CTCACTAGCTGAGGTGGCAGTGGTTCCACCAACATGGAGCTCTCGCAGATGTCGGAGCTC
 ATGGGGCTGTGGGTGTTGCTTGGGCTGCTGGCCCTGATGGCGACGGCGGCGGTAGCGCGG
 GGGTGGCTGCGCGCGGGGGAGGAGAGGAGCGGCCGCGCCCTGGCCAGGAGCTTTTTT
 CCTGTTGGAATTGGGGAGCATCTGCAGTCATTTACCACATGCCAGCTTTGTGACTCAATT
 AAGTATCTTTTACAAAAGTGACTGGCTCCACTCCCCCGCACAGGACTCAACAGATGTTGA
 CTTCTCATCCCCGAGTTCTTTTCAAGGCCAAAAAGCAAATGGATTTCCACCTGACAAATCTT
 CGGGATCCAAGAAGCAGAAACAATATCAGCGGATTCCGAAGGAGAAGCCTCAACAACACA
 ACTTCACCCACCGCCTCCTGGCTGCAGCTCTGAAGAGCCACAGCGGGAACATATCTTGCA
 TGGACTTTTAGCAGCAATGGCAAATACCTGGCTACCTGTGCAGATGATCGCACCATCCGCA
 TCTGGAGCACCAAGGACTTCTCTGCAGCGAGAGCACCGCAGCATGAGAGCCAACGTGGAGC
 TGGACCA CGCCACCCTGGTGCCTTTCAGCCCTGACTGCAGAGCCTTCATCGTCTGGCTGG
 CCAACGGGGACACCCTCCGTGTCTTCAAGATGACCAAGCGGGAGGATGGGGGCTACACCT
 TCACAGCCACCCAGAGGACTTCCCTAAAAAGCACAAGGCGCCTGTCTCATCGACATTGGCA
 TTGCTAACACAGGGAAGTTTATCATGACTGCCTCCAGTGACACCACTGTCTCTCATCTGGA
 GCCTGAAGGGTCAAGTGCTGTCTACCATCAACACCAACCAGATGAACAACACACACGCTG
 CTGTATCTCCCTGTGGCAGATTTGTAGCCTCGTGTGGCTTCACCCAGATGTGAAGGTTT
 GGGAAAGTCTGCTTTGGAAGAAGGGGGAGTTCCAGGAGGTGGTGCAGAGCCTTCGAACTAA
 AGGGCCACTCCGCGGCTGTGCACTCGTTTGTCTTCTCCAACGACTCACGGAGGATGGCTT
 CTGTCTCCAAGGATGGTACATGGAACTGTGGGACACAGATGTGGAATACAAGAAGAAGC
 AGGACCCCTACTTGCTGAAGACAGGCCGCTTTGAAGAGGCGGCGGGTGCCGCGCCGTGCC
 GCCTGGCCCTCTCCCCAACGCCAGGTCTTGGCCTTGGCCAGTGGCAGTAGTATTCATC
 TCTACAATACCCGGCGGGGCGAGAAGGAGGAGTGCTTTGAGCGGGTCCATGGCGAGTGTA
 TCGCCAACTTGTCCTTTGACATCACTGGCCGCTTTCTGGCCTCCTGTGGGGACCGGGCGG
 TGCGGCTGTTTCAACAACACTCCTGGCCACCGAGCCATGGTGGAGGAGATGCAGGGCCACC
 TGAAGCGGGCCTCCAACGAGAGCACCCGCCAGAGGCTGCAGCAGCAGCTGACCCAGGCC
 AAGAGACCCTGAAGAGCCTGGGTGCCCTGAAGAAGTGACTCTGGGAGGGCCCGCGCAGA
 GGATTGAGGAGGAGGGATCTGGCCTCCTCATGGCACTGCTGCCATCTTTCTCCAGGTG
 GAAGCCTTTTCAAGAGGAGTCTCCTGGTTTTCTTACTGGTGGCCCTGCTTCTTCCATTGA
 AACTACTCTTGTCTACTTAGGTCTCTCTCTTCTTGTCTGGCTGTGACTCCTCCCTGACTAG
 TGGCCAAGGTGCTTTTCTTCTCCAGGCCAGTGGGTGGAATCTGTCCCCACCTGGCAC
 TGAGGAGAATGGTAGAGAGGAGAGGAGAGAGAGAGAATGTGATTTTTGGCCTTGTGGC
 AGCACATCCTCACACCCAAAGAAGTTTGTAAATGTTCCAGAACAACTAGAGAACACCTG
 AGTACTAAGCAGCAGTTTTGCAAGGATGGGAGACTGGGATAGCTTCCCATCACAGAACTG
 TGTTCCATCAAAAAGACACTAAGGGATTTCTTCTGGGCCTCAGTTCTATTTGTAAAGATG
 GAGAATAATCCTCTCTGTGAACTCCTTGCAAAGATGATATGAGGCTAAGAGAATATCAAG
 TCCCCAGGTCTGGAAGAAAAGTAGAAAAGAGTAGTACTATTGTCCAATGTCTATGAAAGTG
 GTAAAAGTGGGAACAGTGTGCTTTGAAACCAATTAGAAAACATTCTTGGGAAGGCA

FIGURE 1 (CONT'D)

AAGTTTTCTGGGACTTGATCATACATTTTATATGGTTGGGACTTCTCTCTTCGGGAGATG
ATATCTTGTTTAAGGAGACCTCTTTTCAGTT CATCAAGTTCATCAGATATTTGAGTGCCC
ACTCTGTGCCCAAATAAATATGAGCTGGGGATTAAA

Gene 739. >OTTHUMT00007007711 cDNA sequence

ATGGGTCAACAGAAGCTATGCTGGAGCCACCCGCGAAAATTTCGGCCAGGGTTCTCGCTCT
TGTGCGCTCTGTTCAAACCGGCACGGTCTGATCCGGAAATATGGCCTCAATATGTGCCGC
CAGTGTTTTTGTGAGTATGGGAAGGATATTGGTTTCATTAAGTTGGAC

Gene 740. >OTTHUMT00007006772 cDNA sequence

GCGCCGAGCCGGTTTCCCCCGCGGTGTCCGAGAGGCGCCCCCGGCCCGGCCCGGCC
CCGCGCCCTCCGCCCCCGCTCCCCGGGCGGGCGGCGGTGGGCGAGCTCGCGGGCCCGGC
CGCCCCCAGCCCCAGCCCCCGCGGGCCCCCGCCCCCGTTCGAGTGCATGAGGTTGACGCTA
CTTTGTTGCACCTGGAGGGAAGAAGCTATGGGAGAGGAAGGAAGCGAGTTGCCCGTGTGT
GCAAGCTGCGGCCAGAGGATCTATGATGGCCAGTACCTCCAGGCCCTGAACGCGGACTGG
CACGCACTGCTTCAGGTGTTGTGACTGCAGTGCCTCCCTGTGCGACCACTACTATGAG
AAGGATGGGAGCTCTTCTGCAAGAAGGACTACTGGGCCGCTATGGCGAGTCTGCCAT
GGGTGCTCTGAGCAAATACCAAGGGACTGGTTATGGTGGCTGGGGAGCTGAAGTACCAC
CCCGAGTGTTCATCTGCCTCACGTGTGGGACCTTTATCGGTGACGGGGACACCTACACG
CTGGTGGAGCACTCCAAGCTGTACTGCGGGCACTGCTACTACCACTGTGGTGAACCC
GTCTGAGCAGATCCTGCCTGACTCCCCTGGCTCCACCTGCCCCACACCGTCAACCTG
GTGTCCATCCCAGCCTCATCTCATGGCAAGCGTGGACTTTTCACTCTCATTGACCCCCG
CACGGCCACCGGGCTGTGGCACCGAGCACTCACACACCGTCCGCGTCCAGGGAGTGGAT
CCGGGCTGCATGAGCCAGATGTGAAGAATTCCATCCACGTCCGAGACCGGATCTTGGA
ATCAATGGCACGCCCATCCGAAATGTGCCCTGGACGAGATTGACCTGCTGATTGAGGA
ACCAGCCGCTGCTCCAGCTGACCTCGAGCATGACCTCACGATACACTGGGCCACGGG
CTGGGGCTGAGACAGCCCCCTGAGCTCTCCGGCTTATACTCCAGCGGGGAGGCGGGC
AGCTCTGCCCCGCGAGAAACCTGTCTTGAGGAGCTGCAGCATCGACAGGTCTCCGGGCGCT
GGCTCACTGGGCTCCCCGGCCTCCAGCGCAAGGACCTGGGTGCTCTGAGTCCCTCCGC
GTAGTCTGCGGGCCACACCGCATCTTCCGGCCGTCCGACCTCATCCAGGGGAGGTGCTG
GGCAAGGGCTGCTTCGGCCAGGCTATCAAGGTGACACACCGTGAGACAGGTGAGGTGATG
GTGATGAAGGAGCTGATCCGGTTTCGACGAGGAGACCCAGAGGACGTTTCTCAAGGAGGTG
AAGGTGATGCGATGCCTGGAACACCCCAACGTGCTCAAGTTCATCGGGGTGCTCTACAAG
GACAAGAGGCTCAACTTCATCACTGAGTACATCAAGGGCGGCACGCTCCGGGGCATCATC
AAGAGCATGGACAGCCAGTACCCATGGAGCCAGAGAGTGAGCTTTGCCAAGGACATCGCA
TCAGGGATGGCCTACCTCCACTCCATGAACATCATCCACCGAGACCTCAACTCCCAAC
TGCTTGGTCCGCGAGAAACAAGAATGTGGTGGTGGCTGACTTCGGGCTGGCGCGTCTCATG
GTGGACGAGAAGACTCAGCCTGAGGGCCTGCGGAGCCTCAAGAAGCCAGACCGCAAGAAG
CGCTACACCGTGGTGGGCAACCCCTACTGGATGGCACCTGAGATGATCAACGGCCGAGC
TATGATGAGAAGGTGGATGTGTTCTCTTTGGGATCGTCTGTGCGAGATCATCGGGCGG
GTGAACGACAGCCCTGACTACCTGCCCCGCACCATGGACTTTGGCCTCAACGTGCGAGGA
TTCCTGGACCGCTACTGCCCCCAAACCTGCCCCCGAGCTTCTTCCCCATCACCGTGC
TGTTGCGATCTGGACCCCGAGAAGAGGCCATCCTTTGTGAAGCTGGAACACTGGCTGGAG
ACCCTCCGATGCACCTGGCCGGCCACCTGCCACTGGGCCACAGCTGGAGCAGCTGGAC
AGAGGTTTTCTGGGAGACCTACCGGCGCGGCGAGAGCGGACTGCCTGCCACCTGAGGT
CCCGACTGAGCCAGGGCCACTCAGCTGCCCCCTGTCCCCACCTCTGGAGAATCCACCCCA
CCAGATTCTCCGCGGGAGGTGGCCCTCAGCTGGGACAGTGGGGACCCAGGCTTCTCCTC
AGAGCCAGGCCCTGACTTGCCCTTCTCCACCCCGTGGACCGCTTCCCCTGCCTTCTCTCT
GCCGTGGCCAGAGCCGGCCAGCTGCACACACACCATGCTCTCGCCCTGCTGTAACC
TCTGTCTTGGCAGGGCTGTCCCCTCTTGCTTCTCCTTGATGAGCTGGAGGGCTGTGTG
AGTTACGCCCTTTCCACACGCGCTGCCCCAGCAACCTGTTTACGCTCCACCTGTCTG
GTCCATAGCTCCCTGGAGGCTGGGCCAGGAGGAGCCTCCGAACCATGCCCATATAACG
CTTGGGTGCGTGGGAGGGCGCATCAGGGCAGAGGCCAAGTTCCAGGTGTCTGTGTTCC
CAGGAACCAAATGGGGAGTCTGGGGCCCGTTTTTCCCCCAGGGGGTGTCTAGGTAGCAAC
AGGTATCGAGGACTCTCAAACCCCCAAAGCAGAGAGAGGGCTGATCCCATGGGGCGGAG
GTCCCAGTGGCTGAGCAAACAGCCCTTCTCTCGCTTTGGGTCTTTTTTTTGTCTTCTT

FIGURE 1 (CONT'D)

CTTAAAGCCACTTTAGTGAGAAGCAGGTACCAAGCCTCAGGGTGAAGGGGGTCCCTTGAG
GGAGCGTGGAGCTGCGGTGCCCTGGCCGGCGATGGGGAGGAGCCGGCTCCGGCAGTGAGA
GGATAGGCACAGTGGACCGGGCAGGTGTCCACCAGCAGCTCAGCCCCTGCAGTCATCTCA
GAGCCCCTTCCCGGGCCTCTCCCCAAGGCTCCCTGCCCCTCCTCATGCCCCTCTGTCT
CTGCGTTTTTTCTGTGTAATCTATTTTTTAAGAAGAGTTTGTATTATTTTTTCATACGGC
TGCAGCAGCAGCTGCCAGGGGCTTGGGATTTTATTTTTGTGGCGGGCGGGGTGGGAGGG
CCATTTTGTCACTTTGCCTCAGTTGAGCATCTAGGAAGTATTAAACTGTGAAGCTTTCT
CAGTGCACCTTTGAACCTGGAAAACAATCCCAACAGGCCCGTGGGACCATGACTTAGGGAG
GTGGGACCCACCCACCCCATCCAGGAACCGTGACGTCCAAGGAACCAACCCAGACGCA
GAACAATAAAATAAATTCCGTACTCCCCACCC

Gene 741. >OTTHUMT00007006787 cDNA sequence

ATGCTCATTGCTGCCCCATCCCTCTGGGCTGGAGGAGCAAACGCCTGGAGGCTGAAATGC
AAGTTCTTCAGTCTGACTGAGACGCCAGAGGATTACACTATCATTGTGATGAGGAAGGA
TTCTAGGTCTCAGGCCTGGGCTTCTCCCCAAGACCACTCTGGGTCTCATCAAACCTGC
CAAGAGACTCCTAGTGGCAGAGTCTTGGTTATGTGAGCACCCTCAAGGTGTACACTTC
ACCACCTCGGAGGCTATATCAGCAGCCGCTTCCGCTGGGGAGGACAGAGCCAGGATTGGC
CCCTCGGAGCCCGAAGCCTGCGGCTTTGATAAGAGACAGGCCTCCCACTGCTCAAGACTG
GGGCCGCCCTTTCCATTTCTGTGTCAGCCGCTGCTCTCTAGCCACCACTGGCTGACC
ACTGGTCTTTCTCAGCCAGCGGGACCAATGGGCTCCTTGGGCTGTGGTCACCATGGTGAC
CGGAGCTGGGCACTGCCCTCCTCGGAGCACCTGAGTGTGGCAGATGCCACCTGGCTGGCC
CTGAACGTGGTGTCCGGCGGTGGCAGCTTCTCCAGCTCCAGCCCATCGGCGTGACCAAG
ATCGCCAAGTCAGTCATCGCCCCACTGGCTGACCAGAACATATCCGTGTTTATGCTGTCC
ACGTATCAGACAGACTTCATCCTGGTGCAGCGAGCGGGACCTGCCCTTTGTCACCACACA
TTGTTCATCAGAGTTCACCATCCTGCGGGTCTGCAATGGCGAGACCGTGGCAGCCGAGAAC
CTCGGCATCACCAATGGCTTCGTGAAGCCCCAAGCTGCAGAGGCCAGTCATCCACCACTG
TCCAGCCCAGCAACAGGTTCTGTGTCAACAGCCTGGACCCTGACACGCTGCCTGCTGTT
GCCACACTCCTCATGGATGTGATGTTCTACTCCAATGTGAAGGACCCCATGGCCACTGGG
GATGACTGCGGCCACATCCGCTTCTTCTCCTTCTCCCTCATCGAGGGCTACATCTCCCTG
GTGATGGACGTGCAGACGCAGCAGTTTCTAGTAACTTGCTGTTACAAGCGCATCCGGA
GAGCTCTGGAAGATGGTCCGGATTGGAGGACAGCCCCCTGGGGTTTGAAGTGTGGCATCGTG
GCCCAGATCTCAGAGCCCTTGGCTGCTGCAGACATCCAGCCTACTACATCAGTACTTTC
AAGTTTGTATCATGCACTTGTCCCCGAAGAGAACATCAATGGTGTGATCAGTGCCTTGAAG
GGCCTGGGCCCCGACTCCCAGCAAGACTGCCAAGAGGGCCCTGTCCAGACCCCTCCCCACA
AGCACTCAGTCCTTGGGGGAGGAGGGAGGGTCCCAGGAGACCCACCAGCCTGGAGCACCA
GCTCCTGTCCCCCTCGGCTCTCCCTGGACCCGACTTGGGCGACAGGCAGTGGGAATCGGGA
GATGTACAGGAGCCTGGGCCCTCTCTTCTGAAGGGAAGCTAGGAGCAGAGATCTGTTAC
AAGACGCTGGAGCCGCTGGCACCCACATGGGAACCTCCACCAACCAGCTGTAG

Gene 742. >OTTHUMT00007006793 cDNA sequence

AGGAGGAGGAGGGTGAGAGAGAAGCTGGGAGAGCAGAGAAAAGGGGCCACCGGTGCCCC
CCCGCTTCCCCGCACGCGCTCTCCAGCCGCGGCGCCCGCCTGCCGCGGTCACCCCGGCC
TCTGCCTCTGTCCCCAGTGATCGGATCAAGGCGCTGAGCGAGGCCCTGCCTGCGGGGCG
GCCATGCGGCGGTGACAGGAGCGCGACCGACACGCACGGGCCCCCTCGCCCCCTCTCGCCT
CCCGTCCGCTCGCCAGCTCCCCCTCAGCCGAGGCTGCTCCGCGGCGGCCGAGCCCCGCGG
CGGCCCACTCGCCTCCCCCTCGGCACCCCCCGGCCCCGGAGCTGCCTGGAGGCGGCCGCA
CTCGGGGATCATGGCCCAAGTTGCAATGTCCACCCTCCCCGTTGAAGATGAGGAGTCTC
GGAGAGCAGGATGGTGGTGACATTCTCATGTGAGCTCTCGAGTCCATGTGTAAAGAACT
GGCCAAGTCAAAGCCGAAGTGGCCTGCATTGCAGTGTATGAAACAGACGTGTTTGTGCT
CGGAACTGAAAGAGGACGTGCTTTTGTCAATACCAGAAAGGATTTTCAAAAAGATTTTGT
AAAATATTGTGTTGAAGAAGAAGAAAAAGCTGCAGAGATGCATAAAATGAAATCTACAAC
CCAGGCAAATCGGATGAGTGTAGATGCTGTAGAAATTGAAACACTCAGAAAAACAGTTGA
GGACTATTTCTGCTTTTGTATGGGAAAGCTTTAGGCAAATCCACAGTGGTACCTGTACC
ATATGAGAAGATGCTGCGAGACCAGTCGGCTGTGGTAGTG CAGGGGCTTCCGGAAGGTGT
TGCCTTTAAACACCCCGAGAACTATGATCTTGCAACCCTGAAATGGATTTTGGAGAACAA
AGCAGGGATTTTATTATCATTAAGAGACCTTTTTTTAGAGCCAAAGAAGCATGTAGGTGG

FIGURE 1 (CONT'D)

TCGTGTGATGGTAACAGATGCTGACAGGTCAATACTATCTCCAGGTGGAAGTTGTGGCCC
CATCAAAGTGAAAACCTGAACCCACAGAAGATTCTGGCATTTCCTGGAAATGGCAGCTGT
GACAGTAAAGGAAGAATCAGAAGATCCTGATTATTATCAATATAACATTCAAGCAGGCCC
TTCTGAAACTGATGATGTTGATGAAAAACAGCCCCTATCGAAGCCTTTGCAAGGAAGCCA
CCATTCTTCAGAGGGCAATGAAGGCACAGAAATGGAAGTACCAGCAGAAGATTCTACTCA
ACATGTCCCTTCAGAAACAAGTGAGGACCTGAAGTTGAGGTGACTATTGAAGATGATGA
TTATTCTCCACCGTCTAAGAGACCAAAGGCCAATGAGCTACCGCAGCCACCAAGTCCCGGA
ACCCGCCAATGCTGGGAAGCGGAAAGTGAGGGAGTTCAACTTCGAGAAATGGAATGCTCG
CATCACTGATCTACGTAAACAAGTTGAAGAATTGTTTGAAAGGAAATATGCTCAAGCCAT
AAAAGCCAAAGGTCCGGTGACGATCCCGTACCCTCTTTTCAGTCTCATGTTGAAGATCT
TTATGTAGAAGGACTTCCTGAAGGAATTCCTTTTAGAAGGCCATCTACTTACGGAATTCC
TCGCCTGGAGAGGATATTACTTGCAAAGGAAAGGATTGTTTTGTGATTAAGAAACATGA
GCTTCTGAATTCAACACGTGAAGATTTACAGCTTGATAAGCCAGCTTCAGGAGTAAAGGA
AGAATGGTATGCCAGAATCACTAAATTAAGAAAGATGGTGGATCAGCTTTTCTGCAAAAA
ATTTGCGGAAGCCTTGCGGAGCACTGAAGCCAAGGCTGTACCGTACCAAAAATTTGAGGC
ACACCCGAATGATCTGTACGTGGAAGGACTGCCAGAAAACATTCTTTTCGAAGTCCCTC
ATGGTATGGAATCCCAAGGCTGGAAAAAATCATTCAAGTGGGCAATCGAATTAAATTTGT
TATTAAGAGACCAGAACTTCTGACTCACAGTACCACTGAAGTTACTCAGCCAAGAACGAA
TACACCACTCAAAGAAGATTGGAATGTCAGAATTACCAAGCTACGGAAGCAAGTGGAAGA
GATTTTTTAATTTGAAATTTGCTCAAGCTCTTGGACTCACCGAGGCAGTAAAGTACCATA
TCCTGTGTTTTGAATCAAAACCCGGAGTTCTTGATGTGGAAGGCTTGCCAGAGGGGATTCC
CTTCCGAAGCCCTACCTGGTTTTGGAATTCACGACTTGAAAGGATCGTCCGCGGGAGTAA
TAAATCAAGTTGTTGTTAAAAAACCTGAACTAGTTATTTCTACTTGCCTCCTGGGAT
GGCTAGTAAATAAACACTAAAGCTTTGCAGTCCCCCAAAGACCAAGTCTGAGGAG
TAATTCAAAGGTTCTGAAATTGAGGTCACCGTGAAGGCCCTAATAACAACAATCCTCA
AACCTCAGCTGTTTGAACCCCGACCCAGACTAACGGTTCTAACGTTCCCTTCAAGCCACG
AGGGAGAGAGTTTTCTTTGAGGCCTGGAATGCCAAAATCACGGACCTAAAAAGAAAGT
TGAAATCTCTTCAATGAGAAATGTGGGGAAGCTCTTGGCCTTAAACAAGCTGTGAAGGT
GCCGTTTCGCGTTATTTGAGTCTTTCCCGGAAGACTTTTATGTGGAAGGCTTACCTGAGGG
TGTGCCATTCCGAAGACCATCGACTTTTGGCATTCCGAGGCTGGAGAAGATACTCAGAAA
CAAAGCCAAAATTAAGTTTCATCATTAAAAAGCCCGAAATGTTTGAGACGGCGATTAAAGGA
GAGCACCTCCTCTAAGAGCCCTCCCAGAAAAATAAATTCATCACCCAATGTTAATACTAC
TGCATCAGGTGTTGAAGACCTTAACATCATTACAGGTGACAATTCAGATGATGATAATGA
AAGACTCTCGAAAGTTGAAAAAGCTAGACAGCTAAGAGAACAAAGTGAATGACCTCTTTAG
TCGGAAATTTGGTGAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCCTACAGGAAAT
CACAATTAAACCTGGCTGTGTGGTGGTTGATGGCATGCCCCCGGGGGTGTCTTCAAAGC
CCCCAGCTACCTGGAAATCAGCTCCATGAGAAGGATCTTAGACTCTGCCGAGTTTATCAA
ATTACCGGTCAATGACCATTTCCAGGACTTGTGATTAATAACAGCTGGTTGATCAGAG
TGAGTCAGAAGGCCCGTGATACAAGAATCAGCTGAACCAAGCCAGTTGGAAGTTCCAGC
CACAGAAGAAATAAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAACAGACCCAC
GTGGTAGACCTCTTCCCTCCTAGGCTTAAAGTATCAGTGGTTGAGAAGAGCTTTTCGGAC
CTGTTACTACCCCAAGCTGTGTAATATACTTGTATAACAGAAATACCTTCTATACAAACC
TTTTTTTCTACTTTTAGATAGAAATGTCTACTTTTTTCAGCAGTTCTGTGAATTAAAGAGC
AGAGTGAAGTGGGTCTGGAATGGCTGGTGTACTTGGGAATGTACTATCAGGATTTTACA
GCAATGCTGGGAAATGACAGGGGAAATGACAGGAATGAATCTCACCAGATTTTTTATGTA
CTCAGCAGAGCCTTGAGTTACGGTGTATTATTTCCAATCAAGTGAAGATATCTCCTACTT
CTCCTACTGGAACATCTCAGCTTCTGCAGTGAAGAAAAATTCCTGTGATAGTTTCACTTCT
TTAGTTTTTCTATTTGAAAAAATAATCATTTAAATGATCCTTTGTTTACGGCTCTCCT
TAATGACTGAGTGAACAGTTCTATCTGTATATTTGACTAAACCTTTTCTAAGCTATCT
CTCATGGTTCTATGTTTTTTTATCATAATTAAAGCAAAACCATCTGGATCACCTAACA
GTCAGAGGTGAGTATCTCAGCGTGTGAATTATAGAGGAAATACAGAGAGAACCTCTTCCA
CTTTTACTTTTCGTCCAAATAAAATGCATGGTGTACCAGAAGTTGAAGATCGGGTTGAGG
ATTGGGGCTAGCTCGATGACACTAAGGCCCAACATCGCGGGACCTGCTGTGGCGCGGAT
TCTTAGGAACGCTGTTCTAGCCGGCCCCCTCTCCAGGGGTGCGCGTGGCCGGCATTATTT

FIGURE 1 (CONT'D)

CCTAGTTCTTCTTGTAACCTGAGGTGCCAGCGCGGGGAGTGAGGAGGGGTGAGGGGGCT
AAGGATGCAACCTCTGACGTTCTGCGCCTTCCTAGGAGAGTCTTACATGTGTTGAGATTT
CACAAGCAATGCGAGTTGTAAAATACCAGCTCTACAAGAAGCTAGGCTCTGTGACGGCAT
AGTTTTTCAGTAGCTTTATCACAATATTCACAATGGAGAATTATATGACATGGTAGCAGAA
ATAGGCCCTTTTATGTGTTGCTTCTATTTTACCTCAAATTGTAGATATAGGGTAATCAAT
AAAATCCATCCATGCCTTTTCACACACTAA

Gene 743. >OTTHUMT00007006797 cDNA sequence

ATGGACTCACCCACACCCCATGACCCAGCAGCTCCGCTCCTGGTGACTGTTCTAGAGAGT
GTCCAGAAGAAGACCAAGGACAGAACAGAGACTAGGTTTGGTGAGATGGGACAGATTTTG
GGAAAGATCATGATGAGCCATCAACCGCAGCCCCAGGAAGAGCGGAGCCCCCAGCGGAGC
ACCTCAGGGTACCCCTCCAGGAGGTGGTGGATGATGAAGTGTCTGGGACCATCACCTGGG
GTAGATCCCAGCCCCCACGTAGGTCCCTTGGCTGGAAAAGGAAGAGGGAATGTTTGGAT
GAATCTGATGATGAGCCAGAGAAGGAGCTCGCCCCCTGAGCCTGAGGAGACCTGGGTGGCG
GAGACGCTGTGTGGCCTCAAGATGAAGGCGAAGCGACGGCGAGTGTCTGCTCGTCTCCCT
GAGTACTACGAGGCCTTCAACAGGCTGCTTGGTAGGAGGACACCCAGAGAGCACCTCCA
ATCCTGTTCTTTCTAAAGAGGAAACTTCCAATAACCACACTTTTCCAATGGGAAAAATAT
GCCCCAGTGGATCCTGTCAATTAAGAGCTCCTGGCCTGGGACAAAGATCTGAGGGTGTCTG
GACAAGTATCTCCTGGCTATGGTCATAGCGTATTTAGCCGGGCCGGCCTCCCCTCCTGG
CAATACCAACGCATTTCATTTCTTCTGGCTTATCTGGCCAATGACATGGAGGAGGACGAC
GAGGCCCCCAACAAAACATCTTCTACTTCTGTACGAGGAGACCCGCTCTCATATACCC
TTGCTCAGTGAGCTTTGGTTCCAGTTATGCCGTTACATGAACCCGAGGGCCAGGAAGAAC
TGCTCTCAGATAGCCTTGTTCCGGAAGTATCGGTTCCACTTCTTTTGTTCATGCGCTGC
AGGGCTTGGGTTTCCCTGGAGGAGTTGGAAGAGAACACCGGACCCAGGGGAGATGTGGAT
TTTCAGCAGGAACCTTTATTCCAATGCTAATGGCAGACATCAGGAAGGAGGAGAGGAACCA
TTTGTGCAGATCATCTAG

Gene 744. >OTTHUMT00007007749 cDNA sequence

AAAAAAGTAAAGAAAAACCTCTTGCAAGTATGATTGCTTCTCCTTATGGGAAGCCCATTTA
GATAACCTGGAAGTTGAACCCAGTGAAAACAGTACTTGAATTTAATCAGACACAGGAAGA
ATGTGTGGTCAAGCTTGTGAGAACACACTATGAGTGTAAACAGAAAACTAGTACCTTGAG
CAGGGAAGTACATGGCTTTTAGTAACAGCATGGGAACCTTTCTGGTTACATGGAATAATT
CAGACACATTAAAGAAAAGCCAAGTGTACAGAATCAAGTTATACTGGAGGAAAAACATTGCT
TTTGTAGGCCATCAAGACAAACATTTTAGAGTTAGACTTTTAACAGCAGAGTTATAATCAG
AGGAAAAAAGTGACAGGAGCTGATGAAAAAGTTAAAAGAGAGAGTTATCACCTCAATCAA
GATTAAAGGTGTACTTTCTCAAGGGGAGAAAGAGTTGAAAGCAGTGATGTATGACATGCA
GTAAGATGCAGCAAAACATTAAACTTCTGAGATATAAGTCTGAGAAAGCTTTAAGAGGAAAA
CTCTACCTCAAGAAATGAAATTACCATCCTAAGTGAAGAAGACAGCTTTACTAACGTGAA
ACTA

Gene 745. >OTTHUMT00007007750 cDNA sequence

CCCCACCAGGCCAGCTCTTGCCTCAGCATGGCCGCCTCAGGCCAGGCTCGTGTTCTGCC
TGTGGGCAGCCTCCACGGGCCCGGCTCTCGCCTCTGGCCATCCTCTCCAGGCCCAGAAAT
GTTTCCAGCCAGCCTCTCCAGGCCAGCTCTCCTTGCCGGCTGCGCCTGCCGGGCCAGCT
CCTGCCTCGCAACAGCCACGTTCCGGCCCAGCTCCTGCCAGCTCCTGGCAGCCTTTGTAG
GCCCCAGG

Gene 746. >OTTHUMT00007007754 cDNA sequence

ATGGCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTTT
CTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCAAACAGTCAGCTGG
GCTGATGAAACGGATGACCTGGAAGGAGATGTTTCTACAACTTGGCACAGTAACGATGAC
GATGTGTACAGGGCGCCTCCAATTGACCGTTCCATCCTTCCCACTGCTCCACGGGCTGCT
CGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCCTACACTGCTTTTCTA
GGAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTGAGGATTAAAT
ATCAGTGCAGTGCCTTTACCACGTGAACCCAGCAATCCAGAGAGGCTGAAAGGTTTGGT
TATGCTGAATTTGAGGACCTGGATTCCCTGCTCAGTGCCCTGAGTCTCAATGAAGAGTCT
CTAAGTAACAGGAGAATTGAGTGGACGTTGCTGATCAAGCACTGGATAAAGACAGGGAT
GATCCTCCTTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACAGATACAGACTGGAGG

FIGURE 1 (CONT'D)

GCTCGTCCTGCTACAGACACCTTTGATGACTACCCACCTAGAAGAGGTGATGATAGCTTT
 GGAGACAAGTATCGAGATCGTTATGATTGAGACCGGTATCGGGATGGGTATCGGGATGGC
 CCACGCCGGGATATGGATCGATATGGTGGCCGGGATCGCTATGATGACCGAGGCAGCAGA
 GACTATGATAGAGGCTATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTGTCAGTGGG
 TATCGCAGGGATGATGACTACAGAGAAGGCAGGGACTGCTATGAAGACCAATATGACAGA
 CGGGATGATCGGTCTGTGGAGCTCCAGAGATGATTACTCTCGGGATGATTATAGGCGTGAT
 GATAGAGGTCCCCCCCCCCCCAAAGACCCAACTGAATCTAAAGCCTCGGAGTACTCCTA
 AGGAAGATGATTCTCTGCTAGTAACTCCAGTCCACTCGAGCTGCTTCTATCTTTGGAG
 GGGCAAAGCCTGTTGACACAGCTGCTAGAGAAAGAGAAGTAGAAGAACGGCTACGAAGGA
 ACAAGAGAAGTTGCAGCGTCAGCTGGATGGGCCAAAAGTAGAACGACGGCCTCGGGAGAG
 ACACCCAAGCTGGCAAAGTGAAGAACTCAGGAACGGGAACGGTCGAGGACAGGAAGTGA
 GTCATCACAGACTGGGACCTCCACCACATCTGGCAGAAATGCATGAAGGAGAGAGAGTGA
 GAAGTCTCTAGAAAATGAAACACTCAATAAGGAGGAAGATTGCCACTCTCCAATTCTAA
 ACCTCCCAAACCTGATCAGCCCCCTAAAGGTAATGCCAGCCCCCTCCACCAAAGGAGAATGC
 TTGGGTGAAGCGAAGTTCTAACCTCCTGCTCGATCTCAGAGCTCAGACACAGAGCAGCA
 ATCCCCCTACAAGTGGTGGGGGAAAAGTAGCTCCAGCTCAACCATCTGAGGAAGGACCAGG
 AAGGAAAGATGAAAATAAAGTAGATGGGATGAATGTCCAAAAGGCCAACTGGGAACTC
 TAGCCGTGGTCCAGGAGACTGAGGGAAACAGAGACCACTGGAAGGAGTCAGATAGGAAAGA
 TGGCAAAGGATCAAGACTCCAGATCTGCACCTGAGCCAAAGAAACCTGAGGAAAATCC
 AGCTTCCAAGTTCAGTTCTGCAAGCAAGTATGCTGCTCTCTCTGTTGATGGTGAAGATGA
 AAATGAGGGAGAAGATTATGCCAAA

Gene 747. >OTTHUMT00007007758 cDNA sequence

AAACTGAAGCTACAGAGTGGAGAGATAACAAAAGAAGAGAAGCAGCCCTGCATCAGCGCA
 GTCCATCCACGCAGCATCCCTCATCCTTCCCCTAGGCAGAGGCCAGAGGCTGTTTCAC
 CTCTGATTCTTCCACAGCCTTACCTGGCCCCAAATCCTAGCACCATGGATTCTGAAAGTAA
 CGATAAGAACAGAAATTCATCAGATAAATGGAGCCCCCTTTGAATCAAGATCCCTCCAGGA
 GTATGATTGAGGAAGTTTTGCCACCCAGGCCTACTGAGGAGCCCCAAAGCCCTCTCCAATG
 GAATGGATCTGTGTCCAAGCCACTCAAATGGCTGAAGACCCATCATGACCCTGAAGCTGC
 CCAAGATGGACAGCCAGTTATGGAAGGGAGGAAACAGCTGCCATGGACCCATAATCTCA
 AACCTGTGGTTTGAATATGCTCACTCTCACTGGCTTC

Gene 748. >OTTHUMT00007007780 cDNA sequence

ATGGTGAGGCATTTGGCTACCTTGAAAGTCATCTTTACTCCCTGTTACCCTCACTTTATT
 GAATTTCTTTACTTTGACTTTTCAAGAGCTCTGGGCAGAAATCACATATTAGTTTGGAGGAC
 TTTGTTATTTTATTCAAGTTAAAGTATAGGGTT

Gene 749. >OTTHUMT00007007782 cDNA sequence

CTTTATATACAGAATATTTCTTCCCCAGAAAGTTCTCCAGAAATAAAGAGACGCACTTAT
 AGTCAAGAGGGATATGACAGATCTTCAACCATGTTAACATTGGGGCCTTTTAGAAATTCT
 AATTTAACTGAACTGGGTCTGCAAGAAATAAAGACTATTGGTTATACGAGCCCTAGGAGT
 AGGACTGAAGTCAACAGGCAGTGTCTGGAGAAAAGGAACCTGTGTGACACCTTCAGCTA
 GGACTCGATGCAGTTGAGCCAACTGCCCTACATAAAACCCTGGAAACGCCTGCACATGAC
 AGGGCTGAGCCCAACAGCCAACTGGACTCGACTCACTCTGGACGGGGCACAATGTATTCT
 TCCTGGGTAAAGAGCCCTGACAGAAACAGGAGTTAACTTCTCAGTGAACTCCAACCTTGAGG
 GACCTGACACCCTCGCATCAGTTGGAGGTTGGAGGAGGCTTCCGAATAAGTGAGTCAAAG
 TGCCTGATGCAGGATGATACTAGAGGCATGTTTATGGAAACAACTGTGTTTGTACTTCC
 GAAGATGGGCTTGTATCTGGTTTTCGGACGGACTGTTAATGACAATTTGATCGACGGGAAT
 TGCACACCCCAGAATCCACCACAAAAGAAAAGGTTTCTCTATTAGAATACCGTAAGAGA
 CAACGTGAAGCTAGGAAAAGTGGCTCTAAGACAGAGAACTTTCCACTCATTAGTGTATCA
 CCCCATGCAAGTGAAGCTTGAGCAACAATGGTGATGGCTGTGCCAGCAGTAATGACAAT
 GGGGAGCAGGTGGACCACACTGCTAGCCTACCTTTACCAACACCAGCTACAGTTTATAAT
 GCCACTTCTGAAGAACTAGCAATAACTGCCCTGTAAAGGATGCTACTGCTAGTGAGAAG
 AATGAACCAGAAGTTCAATGGAAGTGCCTCAACTTCAGTGGAACAAGTCAGAGAAAGGAGT
 TATCAGAGAGCTTTACTTCTCAGTGATCACCGAAAAGATAAAGATAGTGGGGGAGAATCA
 CCATGTGTCTCATGTTACCGAGTCATGTTCACTTCACTTCATTCAAATCAC
 ATACCCAGTTGCAAGCTAAGGGCCAGTCCCTTCTTTCACTGAACTTATGGAAGACCCT

FIGURE 1 (CONT'D)

GATCCTGAAAATCCAGAACCCACAACCTACGAATGAATGTCCATCCCAGATACTTCTCAA
AATACTTGTAAAAGTCCTCCAAAAATGAGCAAGCCTGGTTACCTGGATCTGTAATTCCT
GCTCAAGCACACGGGAAAATATTCAAAAACAGATCCCCAATGGGACTCCACAGTTAGT
GCATCCGAAGCTGAAAATGGTGTTCACCTAAAAACAGAGCTCCAACAAAACAGCTATCA
AATAACAACCAAGCACTTTCAAAGAATCATCTCCTCAGACACACGTTCTGTAATTCATCT
GAGCAACTTTCAAAAAGCTGCCTTCTGTGCCAACAAAGTTGCACTGCTCCATCACCT
CACCTAGAAAATCCTCCAAAGTCATCCACGCCTCACACACCTGTACAGCATGGTTATCTT
TCACCAAAGCCTCCTTCACAGCAGTTAGGATCTCCCTACAGGCCTCATCATTACAGTCA
CCTCAAGTTGGAAACACCTCAGCGAGAGCCTCAAAGAACTTTTATCCAGCAGCACAGAAC
CTTCAGCCAATACTCAGCAGGCAACTTCTGGAACATTATTTACACAGACACCTCAGGA
CAATCTTCAGCAACATAC

Gene 750. >OTTHUMT00007007787 cDNA sequence

GAATTTCGCCTGCATCTACTCCACCCTCATTCTTCACTATGAACGAGGTGACCGTCACAGA
GGATAAATCAAGGCCCTAATTAAAGTAGGTGGTGTAAATGTTGAACCTTTTCGGCCTGGT
TTGTTGGCAAAGGCCCTGGCCTATGGTGACATCGAGAGACTCATCCTAATGTAGGGGTTG
GTGGACCTGCTCCAGCAGCTGCTGCTGCATCAACAGTAGGTCCTGCCCTGTCCAGAGCAG
CTGCTCCAGCTGAGGAGAAGGAAGTGAAAAACAAAGAAGAATCTGAGGAGTGTGATGATG
GCATGGGCTTTGGTCTTTTTTGAC

Gene 751. >OTTHUMT00007007788 cDNA sequence

TCAGTTGCCCCGACATGTGAGTGCCATTCTTGGGGCATTCTTGCAACGGCAGCCCTCAGG
CCTGCTGCGTCTAGAAGAACAAGCTTGACAAACATATTGTGGTCTGGTTCTGGTCAAGCA
AAATTCTTTAGCACCAGTTCTCTCACACCATGCACCTGCTGTCAACCAGCATGCGCCCTAT
TTTAAGGGTATAGCCGTTGTCAATGAAGAGTTCAAAGACCTAAGC

Gene 752. >OTTHUMT00007007791 cDNA sequence

GCTCTGCGCTACCCTATGGCCGTGGGCCTCAACAAGGGCCAAAAGGTGACCAAGAACGTG
AGCGAGCCCAGGCACAGCCGCCGCCGCGGGCGTCTGACCAAACACACCAAGTTTGTGCGG
GACATGATCCCGGAGGCATGTGGCTTCGCCCCGTACAAGCAGCAGCCAAAGGAGTTACTG
AAAGGTCTCCAAAGACAAACGGGTCTCAAGTTCATCAAGAAAAGGGTGTGGGCGCACAT
CCGCGCCAAGAGGAAGCGGGAGGAGCAAAGCAACGTCCTGGCCGCCATGAGGAAAGCCGC
TGCCAAGAAAGAC

Gene 753. >OTTHUMT00007007792 cDNA sequence

AGTGCCAACGAGGACCAGGAGATGGAAGTAGAAGCATTACGCTCTATTTATGAAGGAGAT
GAAAGTTTCCGGGAATTAAGTTTCAAGTTTCTTTTCAATATAGGATAGGTGAAAATGGTGAT
CCCAAAGCCTTCTTAATAGAGATTTCTGGACAGAAACATATCCCCAAACACCTCCAATT
CTATCTATGAACGCTTTTTTTTTTAAACAACACCGTATCATCAGCTGTAAAGCAGAGTATAT
TAGCCAAGTTACAGGAAGCAGTAGAAGCTAATCTTGAACCGCTATGACCTGTACATTGT
TTGAATATGCCAAAGACAATAAGAGCAGTTCATGGAGAATCAATCCCATTAATTCCAC
AACATCGATAAGCAATATCATCTCAATTGAAACTCCTAATACAGCCCCATCAAGTAAGAA
AAAAGACAAAAAAGAATAACTTTCAAAGCCCAGAAGCGTAAGCTGGCAGACAAAACAGA
TCACAAAGGAGAACTTCCTCGAGGCTGGAAGTGGGTTGATGTTGTGAAGCATTTAAGCAA
AACTGGCTCTAAGGATGATGAG

Gene 754. >OTTHUMT00007007794 cDNA sequence

GTGTGGCTTGTGCTTTGGATCGTAATGCTTACCTATGCTACTTAAGTTACATACCCTGTG
GCCTTTGTGGCCAGGACTGTGGGCTACTACCTGGAGTGATTGTTAGGGGAAAGGACCCA
CAGCCTGTGCAGGAGGAAAAAGCATCTCTGAGTACAGGGTGGATGAGCTGGATGAGCTG
CCGGGCAAGAGCCACGCACACCCAGGTGGTGAAGTCTTAAGGATAAGGTGGAATTTGCCCC
ATAGCTGTCTGGACAGAACTGCCAGAGAAGAAT

Gene 755. >OTTHUMT00007007797 cDNA sequence

CTGACCTCGTGTCTGTGCTTAGGCACCAAGTATTGCGGGTGCCCTTGAAAG
CCCCAGGGTGTGACAGCCAGGGTTTATGTTGGCCAGGTCATTGTGTCTATCCGTACTAAG
AGCAGAACCATGAGGGTGTGATTGAGGCCATATGCAGGGCCAAGTCTAAGTTCCCTGGCT
GCCAGAAGATCCACAGCACAAGCAGCGGGCCTTGACCAAGTTCAATGTGGAAGAAATCG
ATCCACGTGGTGGCTGAGAAGCAGCTCATCTGGCATGGCTGTGGG

Gene 756. >OTTHUMT00007007007 cDNA sequence

FIGURE 1 (CONT'D)

ATGACGACACTAAACATGAAATTGGAAAACGACATGTATGATTGGCTCTCACAAGCTGGT
ATCAGCCCACCTTCAGCTCACCCTGTTTTTAACTGTGCACCGAACGTTTTGCTTGGGATG
CACTTATTTGGCCATTACCCAGCACATGACGACTTCTATCTCGTAGTGTGCAGTGCCTGT
AACCAGGTCGTCAAGCCACAGGTTTTCCAGTCGCACTGCTGTTTTAGGAGCTGTAGTCCT
TCTGCTGAAATCCGCAGTCCTGTGAGAACAAATGAGAGAAAACCTGCAACTTGTCTCGGT
CGATGGGACTAG

Gene 757. >OTTHUMT00007007028 cDNA sequence

AACATGGGGCTGTACGCTGCGGTGGCAGGCGTGCTGGCCGGCGTGAGAGCCGCCAGGGC
TCTATCAAGGGGCTGGTGTACTCCAGCAACTTCCAGAACGTGAAGCAGCTGTACGCGCTG
GTGTGCGAAACGCAGCGCTACTCCGCCGTGCTGGATGCCGTGATCTCCAGCGCCGGCCTC
CTCAGTGCGAAGAAGCTGCAGCCGCACCTGGCCAAGGGTGCTAGTGTATGAGTTGTTGGG
AAAGGGCTTTTCGAGGGGGTGGGGGCCAATGGAAGGCTCTGTTGGGACGGCACCAGGCGAG
GTGTTGAGTTGGCTCGGCTCAAGGTTCTTCGGGGTGTGAGCTGGCATGAGGACCTGTTGG
AAGTGGGATCCAGGCCTGGTCCAGCCTCCCAGCTGCCTCGATTTGTGCGTGTGAACACTC
TCAAGACCTGCTCCGTTTTATGTAGTTATTTCAAGAGACAAGGTTTCTCCTATCAGGGTCG
GGCTTCCAGGCTGGATGGAGTGCCCTGGCGCGATCTTGGCTCACCGCAACCTCTGCCTCC
TGGGTTCAAGCGATTCTCCTGCTTCAGCCTTCTGAGCAGCTGGGATTATGAAGGGGTGGC
CTGCCCCCTCCACATCTGTGGGATATCTCATCAGCCTCGATGACTTACGAGCCCTCAAGGG
GAAGCATTCTCCTGACCCCTTGATGCCGGAGCTGCTGGTGTTCGCCGCCAGACAGA
TCTGCATGAACACCCACTGTACCGGGCCGGACACCTCATTCTGCAGGACAGGGCCAGCTG
TCTCCCAGCCATGCTGCTGGACCCCCGCCAGGCTCCCATGTATGGATGCCTGTGCCACC
CCAGGCAATAAAGACCAGTCACTTGGCTGCTCTTCTGAAGAACCAAGGGAAGATCTTTGC
CTTTGACCTGGATGCCAGGCGGCTGGCATCCATGGCCACGCTGCTGGCCTGGGCTGGCGT
CTCCTGCTGTGAGCTGGCTGAGGAGGACTTCTGGCGGTCTCCCCCTTAGATCCGCGCTA
TCGTGAGGTCCACTATGTCTGCTGGATCCTTCTGTCAGTGGCTCGGGTATGCCGAGCAG
ACAGCTGGAGGAGCCCGGGGCAGGGACACCTAGCCCCGTGCGTCTGCATGCCCTGGCAGG
GTTCCAGCAGCGAGCCCTGTGCCACGCGCTCACTTTCCCTTCCCTGCAGCGGCTCGTCTA
CTCCATGTGCTCCCTCTGCCAGGAGGAGAATGAAGACATGGTACAAGATGCGCTGCAGCA
GAACCCGGGCGCCTTCAGGCTAGCTCCCGCCCTGCCTGCCCGGCCCCACCGAGGCCTGAG
CACGTTCCCGGGTGCCGAGCACTGCCTCCGGGCTTCCCCAAGACCACGCTTAGCGGTGG
CTTCTTCGTTGCTGTAATTGAACGGGTGAGATGCCGACCTCAGCCTCACAGGCCAAAGC
ATCAGCACCAAGAACGCACACCCAGCCAGCCCCAAAGAGAAAGAAGAGAGCAAAAAGCTG
CAGCCGGTGCTTGACACCCGCTTGACATAGCAGAGGCTCCGGGCTCACTCCTTCCTGG
TGGGAAAGGAAGATGCCTGTCTCTCCGTGGAAGACCCTGGGCCCCACCGCAGGCAGCA
GTTTGCGTTTTTGAAAGGTTATTGGGTCCCTTCTCGGGCTGTGTTCTTGCTGGTGAGCAA
AAGTGTTCCTGCAGAAATAAATGCAGAACGTACTCT

Gene 758. >OTTHUMT00007007030 cDNA sequence

TAAAGGCGCGCGGAACATGGGGCTGTATGCTGCAGCTGCAGGCGTGTTGGCCGGCGTGG
AGAGCCGCCAGGGCTCTATCAAGGGGTGGTGTACTCCAGCAACTTCCAGAACGTGAAGC
AGCTGTACGCGCTGGTGTGCGAAACGCAGCGCTACTCCGCCGTGCTGGATGCTGTGATCG
CCAGCGCCGGCCTCCTCCGTGCGGAGAAGAAGCTGCGGCCGCACCTGGCCAAGGTGCTAG
TGTATGAGTTGTTGTTGGGAAAGGGCTTTCGAGGGGGTGGGGCCGATGGAAGGCTCTGT
TGGGCCGGCACCAGGCGAGGCTCAAGGCTGAGTTGGCTCGGCTCAAGGTTTCATCGGGGTG
TGAGCCGGAATGAGGACCTGTTGGAAGTGGGATCCAGGCCTGGTCCAGCCTCCCAGCTGC
CTCGATTTGTGCGTGTGAACACTCTCAAGACCTGCTCCGATGATGTAGTTGATTATTTCA
AGAGACAAGGTTTCTCCTATCAGGGTCGGGCTTCCAGCCTCGATGACTTACGAGCCCTCA
AGGGGAAGCATTCTCCTGACCCCTTGATGCCGGAGCTGCTGGTGTTCGCCGCCAGA
CAGATCTGCATGAACACCCACTGTACCGGGCCGGACACCTCATTCTGCAGGACAGGGCCA
GCTGTCTCCAGCCATGCTGCTGGACCCCCGCCAGGCTCCCATGTATCATGATGCCTGTG
CCGCCCCAGGCAATAAGACCAGTCACTTGGCTGCTCTTCTGAAGAACCAAGGGAAGATCT
TTGCCTTTGACCTGGATGCCAAGCGGCTGGCATCCATGGCCACGCTGCTGGCCCCGGCTG
GCGTCTCTTGCTGTGAAGTGGCTGAGGAGGACTTCTGGCGGTCTCCCCCTCGGATCCAC
GCTACCATGAGGTCCACTACATCCTGCTGGATCCTTCTGTCAGTGGCTCGGGTATGCCGA
GCAGACAGCTGGAGGAGCCCGGGGCAGGCACACCTAGCCCCGTGCGTCTGCATGCCCTGG

FIGURE 1 (CONT'D)

CAGGGTTCCAGCAGCGAGCCCTGTGCCACGCGCTCACTTTCCCTTCCCTGCAGCGGCTCG
TCTACTCCACGTGCTCCCTCTGCCAGGAGGAGAATGAAGACGTGGTGCGAGATGCGCTGC
AGCAGAACCCGGGCGCCTTCAGGCTAGCTCCCGCCCTGCCTGCCTGGCCCCACCGAGGCC
TGAGCACGTTCCCGGGTGCCGAGCACTGCCTCCGGGCCTCCCTGAGACCACACTCAGCA
GTGGCTTCTTCGTTGCTGTAATTGAACGGGTGAGGTGCCAAGCTCAGCCTCACAGGCCA
AAGCATCAGCACCAGAACGCACACCCAGCCCAGCCCCAAGAGAAAGAAGAGACAGCAAA
GAGCCGCAGCCGGTGCTTGCACACCGCCTTGCACATAGCAGAGGCTCCGGGCTGACTCCT
TCCTGGTGGGAAAGGAAGATGCCTGTCTCTCCGTGGAGGACCCTGGGCCCTCACCGCAG
GAAGCAGTTTGGGTTTTTGAAGGTTATTGGGTCCCTTCCTTGGGCTGTGTTCTTGCTGGT
GAGCAAAGTGTTGCCTGCAAAAATAAAATGCAGAACGTACTCTA

Gene 759. >OTTHUMT00007007045 cDNA sequence

ATGGACAGAACGGAGACTAGGTTCCGTAAGAGGGGACAGATTACGGGAAAGATCACGACC
AGCCGTCAACCGCACCCCAAGAATGAGCAGAGTCCCAGCGGAGCACCTCGGGGTACCCC
CTCCAGGAGGTGGTGGATGATGAAATGTTGGGACCATCAGCCCCTGGGGTAGATCCCAGC
CCCCCATGTAGGTCCCTTGGCTGGAAAAGGAAGAGGGAGTGGTCAGATGAATCTGAGGAG
GAGCCGGAGAAGGAGCTCGCCCCCTGAGCCTGAGGAGACCTGGGTAGTGGAGATGCTGTGT
GGGCTCAAGATGAAGCTGAAGCAACAGCGAGTGTTCATCCATCCTCCCTGAGCACCAAG
GACTTCAACAGTCAGCTTGGCCCTGGGGTAGATCCCAGCCCCCGCATAGGTCCTTTTGC
TGGAAAAGGAAGATGGAGTGGTGGGACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGG
AAGGTGCTCGCCCCCTGAGCCTGAGGAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAG
ATGAAGCTGAAGCGACGGCGAGTGTGCTCGTGTCTCCCTGAGCACCAAGAGGCCTTCAAC
AGGCTGCTTGCTGACCTCAGCCGGAGGCCTCTCCTGGTGGTGGCCCTGAGCAGCAACCTG
ATTTCTGTCTCAGCTACCTGGCCAATGACATGGAGGAGGACGACGAGGACTCCAAACAA
AACATCTTCCACTTCTGTATAGGAAGAACCGCTCTCGCATACCTTGTCTCCGTAAGCCT
TGGTTCCAGTTAGGCCATTCCATGAACCCGAGGGCCAGGAAGAACCGCTCTCGCATACCC
TTGCTCCGTAAGCGTCGGTTCCAGTTATACCGTTCCACGAACCCGAGGGCCAGGAAGAAC
CGCTCTCGCATACCTTGTCTCCGTAAGCGTCGGTTCCAGTTATACCGTTCCATGAACTCG
AGGGCCAGGAAGAACCGCTCTCAGATAGTCCTGTTCCAGAAACGACGGTTCCACTTCTTC
TGTTCCATGAGCTGCAGGGCTTGGGTTTTCCCAGAGGAGTTGGAGGAGAACACCGGACCC
AGGGGAGATGTGGATTTTTAGCGGGAACTTTATTCCAATGCTAATGGCAGACACCAGGCA
GGAGGAGAGGAACCATTTGTGCAGATCATCTAG

Gene 760. >OTTHUMT00007007047 cDNA sequence

ATGGGGAGTACATTTAGAGTGGGAACTGCACTCACTCAATTAGAAAATTTAAATGCCATG
GGAATAATTGGATCCCCAAGGTGGCAGTGTCCAAGTAGTGGCACTCAACTGTCAAAGGCAA
ACAGTAGAGGCTTATGGAGGTGAGGTAATTAATGAAGTTTTAGCTCAGGTCCAACCTTACA
GTGGGTCCATTTGGTCCCCGGAATCATTCTGTGATGATTTCCCCAGGGCCAGAATGCATA
ATTGGCACAGGCATACTTAGCAGCTGGCAGAATCCCCACATTGGCTGCCTGACAATAAAG
TGGGTTGTACACAGCAGCATTCCATCATCTAATGGAAGTGGCACAACGTAATTGGGCTT
AAGCAGGTCCAGAAGGCACAAGTTTTTAACTTCTTTGCCATGGGTTCAAACCTTCTCTTT
AGCTCGGAGAAATTTGATCATCTGAAGCCTTCTTCTCTCAACTCGTCAAAGTCATTCTCC
ATCCAGCTTTGTTCCGTTGCTGCCTGCCTTGTGCTTGGCTGTATGATTTTTCCCTGATGGC
TGGGACTCAGATGAAGTAAAACGGATGTGTGGAGAAAAGACAGACAAGTACACTCTTGGG
GCTTGCTCAGTCCGCTGGGCATACATCCTGGCTATTATTGGAATTTTGGATGCCCTGATC
CTCTCATTTCTAGCATTTGTGCTTGGTAATCGACAAGACAGCTTGATGGCAGAGGAACTG
AAGGCAGAAAACAAATTGCCATCAGAACTTAATGGCTAA

Gene 761. >OTTHUMT00007008004 cDNA sequence

GCAGCCCTCCCACTTCACTCTCTCTGTCTCTCCTGCTCCAACATGGCCAGACGTGCCTGC
TTCCCTTTCGCTTCTGCCGTGATTGTGTCAGTTTCCTGAGGCCTCCCCAGCCACGCTTCCT
GTACAGCCTGCAGAACTGACTCCTAGAAGGACCCACCCCCCTCCCCCACCCCTGCTCC
TAGGAGGACAACGTGATCACTGTATTGAGCTCCATCAAGAATGGTCCAGGTTCTTCTAGA

Gene 762. >OTTHUMT00007006403 cDNA sequence

CTAGATTGTCCAGCCTGCCCTGTGCTTCATTAGCCGGTCAACAGATCCATCTCAAATAC
CTCCCATGGGTACTCACTGATTGCTTTAACCCAAACCATGGCACTCTTGAAGACTTTCCC
TCAGGAAGCTCAAGGACTATGCATCCTTCTGGGTGAGAACTGGACACACAGCCACCAGTG

FIGURE 1 (CONT'D)

CTGGACAATGGCGGCGGCTCAGGGACACACTGGAGCCCTGGCCCTGCAGAGCTCCCAGC
ATGGTTGGGAAGAGAGATGCAAAATGACCACACGGCGGGTGAGGAGGAGCTCCCTCGGTG
CGGCTGGGATGAGCCCTAGACACTCTCAATCACCCACGATGACCCCTTCCAGAGGTC
CCCTCAGTCATCTGCCCTGAACCAAGCTCTTCCTGATCCTAGACCCCTCCACCCTCCCTCT
ATCTTCCAGGGCTTGGTGACATTCCAGGCAGAAATTTCTGACCCTTTTACTTTGGTCCCT
CCCTCCCCAGCCAGTCTCTGGTCAAACCTGGATTCTCTGGCTGTTCCAGAACGAGCTGCC
TTTCCCCACCTTGCCACCTCTGCCCTTGTTCTCTCTGCCTGAATGTCTCTTCACTAGC
CTCGCTGCCTTGACATCTCTCTGAGGGCTGTCTATCCAGAATGAGCTGCATTTGTCCA
GCCTGGCCACCGTCTACCAGAACGTCCTCTCAGCCTGTCCACTGCCTTGCAAACT
TTTCTGGGGGACCTGTTTACGATGCCTTCTGTAGCATACTCCAAGAATCCGGCGCCCCCT
GGAGTTGTGCCACACAGCACCCCTTTGCAGTCAAGCTCCCTCAGCACACCACCTCCACC
CTGGAAGAGTTCCCTTTCCCTTTGAAATCTCATGGGACTTTGCACCCA

Gene 763. >OTTHUMT00007006404 cDNA sequence

GTCAGGTGGCGTTTGTCTGTGGCGGCTAGGCCCCGCTGCGCTGGAGACCTCCGCGCTGGCC
CCCGCGAGCCTCCTGCCCTGGCCCCGGCGCTGCGGCTCTGCCGCGGCGGCAGCATGGGTGG
CCCCCGGGGCGCGGGCTGGGTGGCGGGCGGGCCTGCTGCTCGGCGCGGGCGCTGCTACTG
CATTTACAGGCTGACCCGGGGTTCGGCGGGCGGGGCGACCGCGAGCTCGGGATACGCTCTTC
GAAGTCCGAGAAGACTTAACTGATGGTTTCATATGATGATGTTCTAAATGCTGAACAACT
TCAGAACTCCTTTACCTGCTGGAGTCAACGGAGGATCCTGTAATTATTGAAAGAGCTTT
GATTACTTTGGGTAAACAATGCAGCCTTTTCAGTTAACCAAGCTATTATTTCGTGAATTGGG
TGGTATTCCAATTGTTGCAACAAAATCAACCATTCCAACCAGAGTATTAAAGAGAAAGC
TTTAAATGCACTAAATAACCTGAGTGTGAATGTTGAAAATCAAATCAAGATAAAGATATA
CATCAGTCAAGTATGTGAGGATGTCTTCTCTGGTCTCTGAACTCTGCTGTGCAGCTGGC
TGGACTGACATTGTTGACAAACATGACTGTTACCAATGACCACAGCACATGCTTCACAG
TTACATTACAGACCTGTTCCAGGTGTTACTTACTGGAAATGGAAACACGAAGGTGCAAGT
TTTGAACTGCTTTTGAATTTGTCTGAAAATCCAGCCATGACAGAAGGACTTCTCCGTGC
CCAAGTGGATTATCATTCCTTTCCCTTTATGACAGCCACGTAGCAAAGGAGATTCTTCT
TCGAGTACTTACGCTATTTTCAAGATATAAAGAACTGCCTCAAAATAGAAGGCCATTTAGC
TGTGCAGCCTACTTTCACTGAAGGTTTATTGTTTTTCTGTTACATGGAGAAGAATGTGC
CCAGAAAATAAGAGCTTTAGTTGATCACCATGATGCAGAGGTGAAGGAAAAGGTTGTAAC
AATAATACCCAAAATCTGATTGGTCATATTTTTCCAAAGAGTAATGCAGTCTGGATATAA
ACGTATTTTCTGTCTTCTTATAAGGGGATTCTCCAGCTGCTAAATTTAAACAGTAAAT
ATCACATTTTGTCAATTAACACAG

Gene 764. >OTTHUMT00007008008 cDNA sequence

GCAGCCCTCCCACTTCACTCTCTCTGTCTCTCCTGCTCCAACATGGCCAGACGTGCCTGC
TTCCCTTTCGCTTCTGCCGTGATTGTGAGTTTCTGAGGCCTCCCCAGCCACGCTTCCT
GTACAGCCTGCAGAACTGACTCCTAGAAGGACCCACCCCTCCCCACCCCTGCTCC
TAGGAGGACAACGTGATCACTGTATTTCAGCTCCATCAAGAATGGTCCAGGTTCTTCTAGA

Gene 765. >OTTHUMT00007006406 cDNA sequence

AAACGCAAGGCTTGAATTTTCTCGGGCCTTATGATGCTGGTTCTTGAGAAGTTAGCCAC
TGATATTCTTGTCTGCTATATGATGACAATCTCTTCTGTCAATTTGGTGGATGAAGTACT
CTTGTTTGAAGGGAGCTACACAGTGTTTATGGCTATCCTGGCACTTTTGCTAGTTGTAT
GCATATTCTATCAGAGGAAACCTGTTTTTCAAGATGGTTGACGGTGGAGAGAAAATTTGC
TCTTCAAAAATGGACTCAATGCTTCTCAGAACTGCCTGGGTATCGCAATATAAGGA
TATCACTGACGTGGATGAAATGAAAGTTTCAAGATTGTGCAGAACTTTTATGACTCTACT
CTTGGTTATAACTGACAGGTATAAAAATCTTCCACAGCTTCCCGAAAGCTTCAGTTCTC
GGAGTTACAGAAGGACTTAGTAGATGATTTTAGGATACGATTAAACAAAGTGATGAAAGA
AGAGACTAGAGCTTCCCTTGGCTTTTGATACTGTGCAATTCTTAATGCTGTGAACTACAT
CTCAACAGTACTAGCAGATTGGGCTGACAATGTTTTCTTTCTACAACCTTCAACAGGCTGC
ACTGGAGGTGTTTGCAGAGAATAATACTCTGAGTAAATTGCAGCTAGGACAGCTAGCCTC
TATGGAGAGCTCTGTCTTTGATGACATGATTAACCTCTTAGAACGTTTAAAGCATGATAT
GTTGACCCGTCAAGTAGACCACGTTTTTGAAGAAGTTAAAGATGCTGCAAAATTTGTATAA
AAAAGAAAGATGGTTGTCTTGGCATCTCAGTCAGAGCAGGCAGTGATGTCCCTGTCCAG
TTCGGCTTGCCCGTTGCTGCTGACGTTACGAGACCATTACTTCACTTGGAGCAGCAGCT

FIGURE 1 (CONT'D)

TTGTTTCTCCTTATTTAAATTTTCTGGCAAATGCTTGTAGAGAAGCTGGATGTATACAT
CTACCAAGAAATAATTCTTGCTAATCACTTCAATGAAGGAGGAGCAGCCAGCTGCAGTT
TGATATGACTCGGAATCTTTTCCCTTTGTTTTCTCACTATTGCAAGAGACCAGAAAATTA
TTTTAAACATATAAAAGAAGCCTGTATTGTTTTGAATTTGAACGTCGGTTCTGCACTACT
GCTGAAAGATGTACTGCAGTCAGCTTCAGGGCAGCTTCCTGCCACAGCAGCATTAAATGA
AGTTGGAATTTACAAACTGGCTCAACAAGATGTTGAGATTCTACTTAATTTGAGGACAAA
TTGGCCTAATACTGGAAAATAATGTCTTTAGAAAAAGGTTTCTTTGGTTTTTGTCTTA
AGAAAGAGGAAGCCAATTGGATTTCAAGTTATATGATGAAATTCTGAATTAATGAAACTG
GAAAACCTTTATAGAATTACTTATTATCTTGGATTTATGGTGTATTAAAAATGCTGACCAT
ATTTCTTTTCATCCTCTTGTTCTAAGGAAACAAAAACAGAAAACGAAACAATGAAAACCTC
AATTCTATTTACAAGTATAAATGCTGAGTATGTCTGTTGAAGACGAGCAGAGATATTAAA
TTATAACCAACTTTCAATTTCTGTGCTAATTAAGGGAAATTCTGTTGTGGATAATCAAA
CATAGCCAATAAATTTTTTTTAAAACTCCCTTTG

Gene 766. >OTTHUMT00007006412 cDNA sequence

GCTGGGGTGAGCAGCACTGTAAAGATGAAGCTGGCTAACTGGTACTGGCTGAGCTCAGCT
GTTCTTGCCACTTACGGTTTTTTTGGTTGTGGCAACAATGAAACAGAGGAAATTAAAGAT
GAAAGAGCAAAGGATGTCTGCCAGTGAGACTAGAAAGCAGAGGGAAATGCGAAGAGGCA
GGGGAGTGCCCTACCAGGTAAGCCTGCCCCCTTGACTATTCAGCTCCGAAGCAATTC
AGCAGGATCGAGGAGGTGTTCAAAGAAGTCCAAAACCTCAAGGAAATCGTAAATAGTCTA
AAGAAATCTTGCCAAGACTGCAAGCTGCAGGCTGATGACAACGGAGACCCAGGCAGAAAC
GGACTGTTGTTACCCAGTACAGGAGCCCCGGGAGAGGTTGGTGATAACAGAGTTAGAGAA
TTAGAGAGTGAGGTTAACAAGCTGTCTCTGAGCTAAAATTCTCTTGACCAAGAGTA
AGGAAATGATTCTGAGAATAGATCTTGAAGACTTTAATGGTGTGCAACTATATGCCTTGT
ATGATCAGTTTTATGTGGCTAATGAGTTTCTCAAATATCGTTTACACGTTGGTAACTATA
ATGGCACAGCTGGAGATGCATTACGTTTTCAACAAACATTACAACACGATCTGAAGTTTT
TCACCACTCCAGATAAAGACAATGATCGATATCCTTCTGGGAACTGTGGGCTGTACTACA
GTTTCAGGCTGGTGGTTTTGATGCATGTCTTTCTGCAAACTTAAATGGCAAATATTATCACC
AAAAATACAGAGGTGTCCGTAATGGGATTTTCTGGGGTACCTGGCCTGGTGTAAGTGAGG
CACACCCTGGTGGCTACAAGTCCTCCTTCAAAGAGGCTAAGATGATGATCAGACCCAAGC
ACTTTAAGCCATAAATCACTCTGTTTATTCTCCAGGTATTCTGTTATCTAATAGGGCAAT
TAATTCTTTCAGCACTTTAGAATATGCCTTGTCTTTCATATTTTTTCATAGCTAAAAAATGAT
GTCTGACGGCTAGGTTCTTATGCTACACAGCATTTGAAATAAAGCTGAAAAACAATGCAT
TTTAAAGGA

Gene 767. >OTTHUMT00007007070 cDNA sequence

ATGGCTTATACCAGCAAAGAGCTCGGTTTTTCAGAAAGCAGGCAGAAACCAGCAAGTCCCAAG
GTTGGAAGCACTCAAAGACCTCCGCCAGCTGCAGCCCTGCCCCCTGAGTCCCCGATGAGT
TCCAGTGAGTCGGTGAAGAGCCTGACCGAGCTGGTCCAGCAGCCCTGTCCCCCATCGAG
GCGAGCAAGGACAGCAAGCCACAGAGCCCAAGTGACCCGCCAGCATCCGACTCCAGCCC
ACAACCCCGCTGCCTCTCTCCGGACACTCGGCCCTCAGCATCCAAGAATTAGTAGCCATG
TCCCCGGAGCTGGACACCTACGGCATAACCAAGCGGGTGAAGGAGGTGCTGACGGACAAC
AACCTCCAGCGCTTATTTGGGGAGACCATCTTAGGGCTCACCCAAGGCTCTGTCTCTGAC
CTCCTTGCCCCGCCCAACCCCTGGCATAAGCTCAGTCTGAAAGGACGAGAGCCCTTCGTC
CGGATGCAGCTGTGGCTGAACGACCCCAACAATGTGGAGAAGCTGATGGACATGAAACGG
ATGGAGAAGAAAGTAGGGACCAAGCCCAAGGGTCTGTGGGTCTCTCCCCGTGTGTGGAG
ACGAGAGAGTATAGAAATAAAGACACAAGACAAAGAGATAAAAGGCAGCTGGGCCCGGGG
AACCCTACCAAGTTGTGGAGACTGGTAGTGGCCCCCAATGCCAGGCTGCACTGATA
TTTATTGGATACAAGACAAAGGGGCAGGATAAGGAGAGTGAACCATCTCCAATCATATAC
ATGAAGCGGCGGCACAGCTCAGTCACTGACAGCCAGCCCTGCGAACCAGCCCTCTGTGGC
ACCGAGTACAGCCAGGGCGCCAGCCCCAGCCCCAGCACCAGCTGAAGAAACCCCGGGTG
GTGCTGGCTCCGGAGGAGAAGGAGGCGCTGAAACGAGCGTATCAGCAAAAGCCATACCCG
TCACCAAAAACCATCGAAGACCTCGCCACCCAGCTCAACCTGAAAAACAGCACCGTCATC
AACTGGTTCCACAATACTCTCGGATCCGCAGAGAACTGTTTATTGAGGAAATTCAGGCC
GGGAGTCAGGGCCAGGCGGGCGCCAGCGACTCACCTCGGCCCCGAGCGGGCGGGCGGC
CCCAGCTCGGAGGGCGACAGCTGCGACGGCGTGGAGGCCACTGAGGGCCAGGCAGCGCC

FIGURE 1 (CONT'D)

GACACCGAGGAGCCCAAGTCTCAGGGAGAGGCCGAGCGGGAGGAGGTGCCGCGGCCGGCG
GAGCAGACGGAGCCGCCGCCCTCGGGGACCCCGGGCCCGGACGACGCCCGCGACGACGAC
CACGAGGGAGGCCCCGTGGAAGGCCCGGGGCCCTGCCAGCCCCGCCTCCGCGACCGCC
ACCGCCGCGCCCGCGGCCCGGAGGACGCCGCTACCTCAGCCGCCGCCGCGCCGGGGGAG
GGCCCCGCGGCCCGGAGCTCCGCGCCGCCGCCAGCAACAGCAGCAGCAGCAGCGCCCCC
CGCAGGCCCAGCTCGCTGCAGAGCCTTTTCGGCCTCCCGAGGCCGCGGGCGCCGGGAC
TCGCGCGACAACCCCTGCGCAAGAAGAAGGCCGCGAACTTGAA CAGCATCATCCACCGC
CTGGAGAAGGCCGCCAGCCGGGAGGAACCTATCGAATGGGAGTTCTGA

Gene 768. >OTTHUMT00007006419 cDNA sequence

AGTAGGAATAGAATAGGAGTGAAGAGGGCCTAGGACAGAGTCTTAAATAATACTGGCCT
TTAGGGTTGGGGAGGTATCAGCCAATAAAGACAAGAAGGAATTTCCAGTTATGCAGGAA
AAAAAAATGAGGATGAGGCTCATAAAGCTAAGGGAAGAGAGTAGACCGGGACAGAGGA
GTCAAGTAAGATGAGAACTAAAATGCCGTTGAATTTAGCACCATGAAGGTCATTAGTGAC
GTTAGTGAGAGCTGTTCTAGTGAGCATTGTGAGATGGAAGCTTACTTTGGAATTGACTGA
AAAGTAAATGGGGATTGAGGGAAGAAATGCAGCAGTATGGAGGCAAAAGATATGCACATT
TGATCACTTACAAAATATGATTACAGACCAACTAAAAACCTAGGAGATTCCAGAACTGG
AATGTACTTCAACACAAATTTCTTGGGATACAGATAAATGTCATTCACTTATTACCAAAC
ATTTATGAAGCACTCGGTTCCAGGTCTTGTGCTAAAGAAACATGTCAGTCTGATGGCTTT
TCTTGTGTAGCCACAGTGATTGGAGATGTCTTTGGCTTTGCACTTTAGCTGCTAGTTGTT
CTATTTAAACGTCTAGGTAAGTAAATAGGTTAAAGTGCTCTCCTGTGTAGGACCCCTTCCT
AGTGTGGTTCTGTCTTCAAAGACTATGATTCTCACCTAGAGCAGATGAGGTGAA CATTCT
TCTTATTCCCATTCCCATTCTGGAATCCTTTTTGCCTCTAGATTAATGGGAATCCAACAT
CAGTGAAGTGCCCTTTGCTGCTGCTGCCAGCCATTCTGACTCCAGAGCCGGTGAATAGGT
GCTGCTTCCATCACTAGGTGGAATAACAGGAGCATGTGCTGCCAATCAGCATGGTTGCCT
AGCAACAGGAGGAGATGCTATTCTATTGTCTATCAGTGTGGGGGCACAATATATTTTAGTT
TAAGGTGCTTGATGAACACAATGATTACATGGACCCTCCATGTCAGCCTTGGAAGTTGTG
ATTCTGAGGCTGGGAAGCTGGACTATCTTTGGAAGCTAAATTTGGAAGTGAAAGGGGGAT
GTAGGATATGATCATCTGGCTACATAGATAAGTATTGAAAAATAGGATTTGGGTTTCTGG
CTATGGCTTAAGCTGTAAGAAATAATGGGCTCCTGGCAAAGGATAAAGTGTATCATGAAAC
AAGAAATAATGTGTCTGGCAGGCATGCAATTCTCATTGAATATGAGGAAGTGGGAGACAA
ATGCCTAGATAATCTGAAAAACAAAAAGAGATTTTACAGAGGACACCAGGTATAAAGTA
GAAACAACCAAGTGGGAAAGATACACAGAGTGAATATCAAATTTTAATACAAGACAGTA
CTCTGTCTCCTAGATCTTATTGAGATTTGGAAGTGTGATGCAACATGGGTCACTTTGTGG
TCACCAACTGTCCTAAAAAGATTTGGGACAAATTCACAGTGTGATGGTATGGATGAAAA
AATAGGCACTATTGAGAACACTTAAAGAAACAAGAACCGAAGATTTTGGCTGTTTCTCAT
CATCTCATGGAAGGTGGGCAGGGATCAGGGTGCCACAGAACCCCTTCGTGTGTATCTGTG
TTTTAGCGAAGGAACCCCTCTGCTCCCCTGTGGTTCTCTCTATTATTGAGAAAGTGGAAA
ACAACAACAACAAAAACAAAAA

Gene 769. >OTTHUMT00007007077 cDNA sequence

GAGGAGCCTCGGGTGGGCCGGGGTTGCTGCGCCGTCCTCCACTACTGGCTACTGGCGCTG
CAGCCATGCAGCCCCCGCCCCCGGGCCCGCTGGGCGACTGCCTGCGGGAAGTGGGAGGATC
TACAGCAGGACTTCAGAACATCCAGGAGACCCATCGGCTCTACCGCCTGAAGCTGGAGG
AGCTGACCAAACCTTTAGAACAAATTGCACCAGCTCCATCACGCGGCAGAAGAAGCGGCTCC
AGGAGCTGGCCCTCGCCCTGAAGAAATGCAAACCCCTCCCTCCAGCAGAGGCCGAGGGGG
CCGCACAGGAGCTGGAGAACAGATGAAAGAGCGCAAGGCCTCTTCTTTGACATGGAGG
CCTATTTGCCTAAGAAGAATGGATTGTACCTGAGCCTGGTTCTGGGGAAACGTCAACGTCA
CGCTCCTGAGCAAGCAGGCTAAGTTTGCCTACAAGGACGAGTATGAGAAGTTCAAGCTCT
ACCTCACCATCATCCTCATCCTCATCTCCTTCACTTGCCGCTTCCTGCTCAACTCCAGGG
TGACAGATGCTGCCTTCAACTTCCTGCTGGTCTGGTACTACTGCACCCTGACCATCCGGG
AGAGCATCCTCATCAACAACGGCTCCCGGATCAAAGGCTGGTGGGTGTTCCATCACTACG
TGTCCACCTTCCTGTGGGAGTCATGCTGACGTGGCCCGACGGTCTCATGTACCAGAAAT
TCCGGAACCAATTCCTCTCCTTTTCCATGTACCAGAGCTTCGTGCAGTTTCTCCAGTACT
ACTACCAGAGCGGCTGCCTCTACCGCCTGCGGGCGCTGGGCGAGCGGCACACCATGGACC
TCACTGTGGAGGGCTTCCAGTCTGGATGTGGCGGGGCCTCACCTTCCTGCTGCCTTTTC

FIGURE 1 (CONT'D)

TTTTCTTTGGACACTTCTGGCAGCTTTTAAACGCGCTGACGTTGTTCAACCTGGCCCAGG
ACCCTCAGTGCAAGGAGTGGCAGGTGCTTATGTGCGGCTTTCCCTTCCTCCTCTTTTCC
TCGGCAATTTCTTCACCACCCTGAGGGTTGTGCACCACAAGTTTACAGTCAGCGGCACG
GGAGCAAGAAGGATTGAGGCTGGGCCTTCCCCTGCCGGCCAGAGGGGCTTCTGTCCTGT
GTGTTGTGGGAGGGGATGGGAGGCGCCCCTCGAGTGTGCGTGTATCAGGGGGTCTCTTCT
ATTCTCCCTTGGGTTTTATGGGCGCTGTGGGCCCTGAAGGAAGACCTGGGCCAGTGCCC
TCAATAAAGAGAGGCCCA

Gene 770. >OTTHUMT00007006426 cDNA sequence

ATGCTGTGTGGCCTCAAGATGAAGCTGAAGCGACGGCGAGTGTGCTCGTCTCCCTGAG
CACCACGAGGCCTTCAACAGGCTGCTTGATCCTGTATTAAAGATTCTTGGCCTGGGAC
AAAGATCTGAGGGTGTTCGGACAAGTATCTCCTGGCTATGGTCATAGCGTATTTAGCCGG
GCCGGCTTCCCCTCCTGGCAATACCAACGCATTCAATTTCTTCTGGCTTACCTGGCCAAT
GACATGGAGGAGGACGACGAGGACTCCAAACAAAACATCTTCCAATTCTGTATAGGAAG
AACCGCTCTCGCATACCTTGCTCCGTAAGCGTTGGTTCCAGTTAGGCCATTCCATGAAC
CCGAGGGCCAGGAAGAACCGCTCTCGCATACCTTGCTCCGTAAGCGTCCGTTCCAGTTA
TACCGTTCCACGAACCCGAGGGCCAGGAAGAACCGCTCTCGCATACCTTGCTCCGTAAG
CGTCCGTTCCAGTTATACCGTTCCATGAACCTCGAGGGCCAGGAAGAACCGCTCTCAGATA
GTCCTGTTCCAGAAACGACGGTTCCATTTCTTCTGTTCCATGAGCTGCAGGGCTTGGGTT
TCCCCAGAGGAGTTGGAGGAGAACCCGGACCCAGGGGAGATGTGGATTTTCAGCAGGAA
CTTTATTCCAATGCTAATGGCAGACACCAGGCAGGAGGAGAGGAACCATTTGTGCAGATC
ATCTAG

Gene 771. >OTTHUMT00007007089 cDNA sequence

ATGGCACTTGTGTATGTGCTAATGGGAACCTGGCATTTCAGCTGGGTTTAACTTGAAAGAA
TCATACAATGTGGATGTGCTTGGAACTTCTCTACTGCTACCTCCAGCCAATCCGGAC
ACCAGCCTCTTCCACCTTGTGTACGTAGATGCCATTGCCATAGCCATCGTTGGATTTTCA
GTGACCATCTCCATGGCCAAGACCTTAGCAAATAAATATGGCTACCAGGTTGACGGCAAT
CAGACCTTTTCAATTTATGCTCCTTGTCTCGAAGCCTTGTTCCAGGAGGAACCGGTGGG
AAGACACAGCTTGCAGGTTGTTTGGCCTCATTAATGATTCTGCTGGTCAATATTAGCAACT
GGATTCTCTTTGAATCATTGCCCCAGGCTGTGCTGTCCGCCATTGTGATTGTCAACCTG
AAGGGAATGTTTATGCAGTTCTCAGATCTCCCTTTTTCTGGAGAACCAGCAAAATAGAG
CTGACCATCTGGCTTACCACTTTTGTGTCTCCTTGTTCTGGGATTGGACTATGGTTTG
ATCACTGCTGTGATCATTGCTCTGCTGACTGTGATTTACAGAACACAGCCAAGCTACAAA
GTCCTTGGAAAGCTTCTGAAACTGATGTGTATATTGATATAGACGCATATGAGGAGGTG
AAAGAAATTCCTGGAATAAAATATTTCAAATAAATGCACCAATTTACTATGCAATAGC
GACTTGTATAGCAATGCATTAAACGAAAGACTGGAGTGAACCCAGCAGTCATCATGGGA
GCAAGGAGAAAGGCATGCGGAAGTACGCTAAGGAAGTCGGAATGCAAAATATGGCCAAC
GCAACTGTTGTCAAAGCAGATGCAGAAGTAGATGGAGAGGATGCTACCAAGCCTGAAGAA
GAGGATGGTGAAGTAAATATCCCCAATAGTGATCAAAAGCACATTTCTGAGGAAATG
CAAAGATTTATGCCCCAGGGGATAACGTCCACACTGTCAATTTTGGATTTCACTCAAGTC
AATTTTATTGATTCTGTTGGAGTGAAAACCTGCGCAGGGATTGTAAAAGAATATGGAGAC
GTCGGTATATATGTATACTTAGCAGGATGCAGTCAAGTTGTGAATGACCTCACTCGGAAT
AGATTTTTTGAAATCCTGCCCTATGGGAGCTGCTGTTCCACAGCATTATGATGCAGTT
TTAGGCAGCCAATTAGAGAGGCACTTGCTGAACAGGAAGCCTCGGCTCCCCCTTCCAG
GAGGACTTGGAGCCCAATGCCACTCCTGCCACTCCTGAGGCATAG

Gene 772. >OTTHUMT00007008045 cDNA sequence

CTTGACTCACTGAGGCAGTAAAGAACCATATCCTGTGTTTGAATCAAATCCCAAGTTC
CTGTACGTAGAAGGTTTGCCAGACAGGATTCCCTTTCGAAGCCCTCCTGGTTTGGAAATC
CATGACTTGAAAGGATCGTCCATGGGAGTAATAAAATCAAATTTGTTGGTAAAAACCTG
AACTGGTTATTTCTACTTGCCCTCCTGGAGTTGCTAATAAAATAAACTAAAGCTTCGC
AGTTTCTAAAAAGACCATGAAGCCCTGAGAGTAATGAAAAGGTTCTGAAATTGAGGTCA
CTGTGGAAGGT

Gene 773. >OTTHUMT00007006445 cDNA sequence

GGGACGTGAGCCGCTGCGCCACCGGGCTAGACCCGGCGCCATCATGCTGCTTCTGCCAA
GCGCCGCGGACGGCCGGGGCACCGCCATCACCCACGCTCTGACCTCTGCCTCTACACTCT

FIGURE 1 (CONT'D)

GTCAAGTTGAACCTGTGGGAAGATGGTTTGAAGCTTTTGTAAAGAGGAGAAAAGAGAAATG
 CTTCTGCCTCTTTTCAGGAAGCTGGAGGATAAGAAAGAGTTATCCGAGGAATCAGAAGATG
 AAGAATTGCAGTTGGAAGAGTTTCCCATGCTGAAAAACCTTGATCCCAAAGACTGGAAGA
 ACCAAGATCATTATGCAGTTCTTGGACTTGGCCATGTGAGATACAAGGCTACACAGAGAC
 AGATCAAAGCAGCTCATAAAGCAATGGTTTTAAAAACATCACCAGACAAACGGAAGCAG
 CTGGTGAACCAATAAAAGAAGGAGATAATGACTACTTCACTTGCATAACTAAAGCTTATG
 AAATGTTATCTGATCCAGTGAAGGACGAGCATTAAACAGTGTAGATCCTACTTTTGATA
 ACTCAGTTCCTTCTAAAAGTGAAGCAAAGGATAATTTCTTCGAAGTGTTTACCCAGTGT
 TTGAAAGGAATTCCAGATGGTCAAATAAAAAAATGTTCTTAAACTTGGTGATATGAATT
 CATCATTTGAAGATGTAGATATATTTTATTCTTTCTGGTATAATTTTGATTCTTGGAGAG
 AATTTTCTTATTTAGATGAAGAAGAAAAAGAAAAAGCAGAATGTCGTGATGAGAGGAGAT
 GGATTGAAAAGCAGAACAGAGCAACAAGAGCACAAAGAAAAAAGAAAGAAATGAACAGAA
 TAAGAACATTAGTTGACAATGCATACAGCTGTGATCCAAGGATAAAAAAGTTCAAGGAAG
 AAGAAAAAGCCAAGAAAGAAGCAGAAAAAGAAAGCAAAAGCAGAAGCTAAACGGAAGGAGC
 AAGAAGCTAAAGAAAAAACAAGACAAGCTGAATTAGAAGCTGCTCGGTTAGCTAAGGAGA
 AAGAAGAGGAGGAAGTCAGACAGCAAGCATTGCTGGCAAAGAAGGAAAAAGATATCCAGA
 AAAAGCCATTAGAAGGAAAGGCCAAAACTTCGAAACTCATGCAAGATAGAAGAAATAA
 ATGAGCAAATCAGAAAAGAGAAAGAGGAAGCTGAGGCTCGTATGCGACAAGCATCTAAGA
 ACACAGAGAAATCAACTGGTGGAGGTGGAATGGAAGTAAAAATTGGTCAGAAGATGATC
 TACAATTACTAATTAAAGCTGTGAATCTGTTCCCTGCTGGAACAAATTCAAGATGGGAAG
 TTATTGCTAATTACATGAACATACATTCTTCTCTGGAGTCAAAAGAACTGCCAAAGATG
 TTATTGGCAAAGCAAAGAGTCTCAAAAACCTTGACCCCTCATCAAAAAGATGACATAAATA
 AAAAGGCATTTGATAAGTTCAAAAAGAACATGGAGTGGTACCTCAAGCAGACAACGCAA
 CGCCTTCAGAACGATTTGAAGGTCCATATACAGACTTCACCCCTTGGACAACAGAAGAAC
 AGAAGCTTTTGGAAACAAGCTTTGAAAACATACCCAGTAAATACACCTGAAAGATGGGAAA
 AAATAGCAGAAGCGGTGCCTGGCAGGACAAAGAAGGACTGCATGAAACGATACAAGGAAC
 TTGTCGAGATGGTAAAAGCAAAGAAAGCTGCTCAAGAACAAGTGTGAATGCAAGTAGAG
 CCAAGAAATGACAATCTTTGTTGTGTGTGCATTTTTATAATAAACTGAAAATACTGTAA
 ACATTTTCATTCTTAAATTATACTCATGGTAATAATTTGAAAGTA

Gene 774. >OTTHUMT00007006446 cDNA sequence

ATGGCCAGGTAGCAGTGTCCACCCTGCCTGTTGAAGAAGAGTCTCCTCAGAGACCAGG
 ATGGTGGTGACATTCTCTGTGTCTGCCCTCGAATCCATGTGTAAAGAACTGGCCAAGTCC
 AAGGCAGAAGTGGCCTGCATCGCAGTGTACGAAACAGACGTGTTTGTCTCGGAACCGAG
 AGAGGATGCGCTTTTGTAAATGCCAGGACGGATTTTCAGAAAGATTTTGCAAAATACGTT
 GCAGAGGGACTGTGTGAGGTGAAACCTCCCTGCCCTGTGAACGGGATGCAGGTCCACTCG
 GGCAGAACGGAAATACTCAGGAAGGCAGTGGAGGACTATTTCTGCTTTTGTATAAAGCC
 TTAGGGACAACAGTGATGGTGCCTGTTCCCTATGAGAAGATGCTGCGAGACCAGTCCGCT
 GTGGTAGTGACAGGGCTTCGGGAAGGCGTTGCCTTTCAACACCCTGAGAATTACGACCTT
 GCAACCCTGAAATGGATTTTGGAGAACAAAGCAGGGATTTCAATCATATAAATCCCTTC
 CTAGGACCAGAGAGTCAGCTGGGCCCTGGGATGGTAACAGATGCGGAGAGATCCATAGTA
 TCACCAAGTGAATGCGGCCCATCAATGTGAAAACCTGAACCATGGAAGATTCTAGCCAC
 CCTTCTTCCACAAGCAATGAAGTAATAGAAATGGAATTACCAATGGAATCCACTCCGCTG
 GTCCTTTCAGAAGAACCAATGAGGACCTGAAGCCGAGGTGAAAATCGAAAAACAAAT
 TCATCCAGTGTTACAAATTCTGCAGCAGGTGTTGAAGATCTTAAATCATGTTCAAGTGACT
 GTTCCAAATGAGAAGGAAAGATTATCAAGCATTGAAAAGATTAAACAGCTAAGAGAACAA
 GTTAATGACCTCTTTAGCCGAAAATTTGAAGCAATTGGCGTGGATTTCCCTGTGAAAGTT
 CCTACAGGAAGATCACATTCAACCTGGCTGTGTGGTGATTGATGGCATGCCCCGGGG
 GTGGTATTCAAGGCCCCGGCTATCTGGAATCAGTTCCATGAGGAGGATCTTGGAGGCA
 GCTGAGTTTATCAAATTACAGTCATCGTCCATGTGCAGGATGTGCAGGTTTGTACACA
 GGAAGAACGCAAGATAGACCAGGAGGGCCGTGTGTTTCAAGAAAAGTGGGAGAGAGCGTAT
 TTCTTCTGTGAAGTACAGAATATTCCAACATGTCTCATATGCAAAACAAAGCATGTCTGTG
 TCCAAAGAATATAACCTAAGACGCCACTATCAAACCAATCACAGCAAGCATTATGACCAG
 TATATGGAAGAATGCGTGACGAGAAGCTTCACGAGCTGAAAAAAGGGCTCAGGAAGTAT
 CTCTTAGGCTTGTGAGACACCGAGTGTCCCAGCAAAAAACAAGTGTGTCACACCCAAGT

FIGURE 1 (CONT'D)

CCAACCCAGAAATCCCCGTGCAGCCTGTAGAGGACCTAGCTGGGAACCTTATGGGAGAAG
 TTACGTGAAAAAATCAGGTCTTTTGTGGCATATTCTATCGCAATCGATGAGATCACGGAT
 ATAAATAATACCAACCCAGTTGGCCATATTATCATCGTGGTGTGATGAGAATTTTCGATGTG
 TCCGAAGAACTTCTGGACACGGTGCCCATGACGGGTACAAAATCTGGCAACGAGATCTTT
 TCGCGTGTGAGAAGAGCCTGAAAAAGTTCTGTATCGACTGGTCGAAATTAGTAAGCGTG
 GCCTCCACTGGCACCCAGCGATGGTGGATGCCAATAACGGGCTTGTACAAAACTGAAG
 TCCAGGGTGGCGACGTTCTGCAAGGGTGGGAACTGAAGTCCATCTGTTGTATAATTAT
 CCGGAATCACTCTGTGCTCAGAAGTTGAAGATGGACCACGTATGGACGTGGTAGTGAAG
 TCCGTGAACTGGATATGCTCCCGGGGACTGAACCACAGTGAGTTCACAACCTTGCTCTAT
 GAGCTGGACAGCCAGTATGGTAGCCTCCTGTACTACACGGAGATTAAGTGGCTCAGTCGC
 GGGCTCGTGCTAAAGAGATTTTTTGAATCCTTGGAAGAAATCGACTCCTTCATGTCATCC
 AGAGGGAAACCCCTGCCTCAACTGAGCTCCATAGATTGGATCCGAGACCTGGCCTTCTTG
 GTTGACATGACGATGCATCTGAACGCTTTGAACATCTCTCTCAAGGACACTCCAAATC
 GTCACGCAGATGTATGACCTGATCCGGGCGTTCTAGCAAAACTGTGCCTCTGGGAGACT
 CATTTGACGAGGAATAATCTGGCCCACTTTCCACCCTGAAATTGGCTTCAGAAATGAA
 AGCGATGGCCTGAACTACATTCCTCAAAATCGCGGAACTCAAGACCGAATTCAGAAAAGG
 CTGTCTGATTTCAAACCTACGAAAGCGAACTGACTCTGTTTCAGCTCCCCGTTCTCCAG
 AAGATCGACAGTGTGCACGAGGAGCTCCAGATGGAGGTTATCGACCTGCAATGCAACAG
 GTCCTGAAGACGAAATACGACAAGGTGGGAATACCAGAATTCTACAAGTACCTCTGGGGT
 AGCTACCCGAAATACAAGCACCATTGCGCAAAGATTCTTTCCATGTTCTGGGAGCACCTAC
 ATCTGCGAACAGCTGTTCTCCATTATGAAACTGAGCAAAACAAAATACTGCTCCAGTTA
 AAGGATTCCAGTGGGATTCTGTACTCCACATCGCAACGTGA

Gene 775. >OTTHUMT00007006447 cDNA sequence

CAGCATCAATAAGGCCATTAATACGCAGGAAGTGGCTGTAAAGGAAAAACAGCCAGAAC
 GTGCATACTGGGCACCCACCATGAGAAAGGGGCACAGACCTTCTGGTCTGTTGTCAACCG
 CCTGCCTCTGTCTAGCAACGCAGTGCTCTGCTGGAAGTTCTGCCATGTGTTCCACAACT
 CCTCCGAGATGGACACCCGAACGTCTGAAAGGACTCTCTGAGATACAGAAATGAATTGAG
 TGACATGAGCAGGATGTGGGGCCACCTGAGCGAGGGGTATGGCCAGCTGTGCAGCATCTA
 CCTGAAACTGCTAAGAACCAAGATGGAGTACCACACCAAAAATCCAGGTTCCAGGCAA
 CCTGCAGATGAGTGACCGCCAGCTGGACGAGGCTGGAGAAAGTGACGTGAACAACTTTTT
 CCAGTTAACAGTGGAGATGTTTGACTACCTGGAGTGTGAACTCAACCTCTTCCAAACAGT
 ATTCAACTCCCTGGAATGTCCCGCTCTGTGTCCGTGACGGCAGCAGGGCAGTGCCGCT
 CGCCCCGCTGATCCAGGTCACTTTGGACTGCAGCCACCTTTATGACTACACTGTCAAGCT
 TCTCTTCAAACCTCACTCCTGCCTCCAGCTGACACCCTGCAAGGCCACCGGGACCGCTT
 CATGGAGCAGTTTACAAAGTTGAAAGATCTGTTCTACCGCTCCAGCAACCTGCAGTACTT
 CAAGCGGCTCATTAGATCCCCAGCTGCCTGAGAACCACCAACTTCCTGCGAGCCTC
 AGCCCTGTGAGAACATATCAGCCCTGTGGTGGTGATCCCTGCAGAGGCCTCATCCCCGA
 CAGCGAGCCAGTCTAGAGAAGGATGACCTCATGGACATGGATGCCTCTCAGCAGAATTT
 ATTTGACAAACAAGTTTGATGACATCTTTGGCAGTTCATTAGCAGTGATCCCTTCAATTT
 CAACAGTCAAAATGGTGTGAAACAAGGATGAGAAGGACCACTTAATTGAGCGACTATAAG
 AGAGATCAGTGGATTGAAGGCACAGCTAGAAAACATGAAGACTGAGAGCCAGCGGGTGT
 GCTGCAGCTGAAGGGCCACGTGAGCGAGCTGGAAGCAGATCTGGCCGAGCAGCAGCACCT
 GCGGCAGCAGGCGGCAGACGACTGTGAATTCCTGCGGGCAGAACTGGACGAGCTCAGGAG
 GCAGCGGGAGGACACCGAGAAGGCTCAGCGGAGCCTGTCTGAGATAGAAAGGAAAGCTCA
 AGCCAATGAACAGCGATATAGCAAGCTAAAGGAGAAGTACAGCGAGCTGGTTCAGAACCA
 CGCTGACCTGCTGCGGAAGAATGCAGAGGTGACCAAAACAGGTGTCCATGGCCAGACAAGC
 CCAGGTAGATTTGGAACGAGAGAAAAAGAGCTGGAGGATTTCGTTGGAGCGCATCAGTGA
 CCAGGGCCAGCGGAAGACTCAAGAACAGCTGGAAGTTCTAGAGAGCTTGAAGCAGGAACT
 TGCCACAAGCCAACGGGAGCTTCAGGTTCTGCAAGGCAGCCTGGAACTTCTGCCAGTC
 AGAAGCAAACTGGGCAGCCGAGTTCGCGGAGCTAGAGAAGGAGCGGGACAGCCTGGTGAG
 TGGCGCAGCTCATAGGGAGGAGGAATTATCTGCTCTTCGGAAGAACTGCAGGACACTCA
 GCTCAAACTGGCCAGCACAGAGGAATCTATGTGCCAGCTTGCCAAAGACCAACGAAAAAT
 GCTTCTGGTGGGGTCCAGGAAGGCTGCGGAGCAGGTGATACAAGACGCCCTGAACAGCT
 TGAAGAACCTCCTCTCATCAGCTGCGCTGGGTCTGCAGATCACCTCCTCTCCACGGTCAC

FIGURE 1 (CONT'D)

ATCCATTTCCAGCTGCATCGAGCAACTGGAGAAAAGCTGGAGCCAGTATCTGGCCTGCCC
 AGAAGACATCAGTGGACTTCTCCATTCCATAACCCTGCTGGCCCACTTGACCAGCGACGC
 CATTGCTCATGGTGCCACCACCTGCCTCAGAGCCCCACCTGAGCCTGCCGACTCACTGAC
 CGAGGCCTGTAAGCAGTATGGCAGGGAAACCTCGCTACCTGGCCTCCCTGGAGGAAGA
 GGGAAGCCTTGAGAATGCCGACAGCACAGCCATGAGGAACTGCCTGAGCAAGATCAAGGC
 CATCGGCGAGGAGCTCCTGCCCAGGGGACTGGACATCAAGCAGGAGGAGCTGGGGGACCT
 GGTGGACAAGGAGATGGCGGCCACTTCAGCTGCTATTGAACTGCCACGGCCAGAATAGA
 GGAGATGCTCAGCAAATCCCAGCAGGAGACACAGGAGTCAAATTGGAGGTGAATGAAAG
 GATCCTTGTTGCTGTACAGCCTCATGCAAGCTATTAGGTGCTCATCGTGGCCTCTAA
 GGACCTCCAGAGAGAGATTGTGGAGAGCGGCAGGGGTACAGCATCCCCTAAAGAGTTTTA
 TGCCAAGAACTCTCGATGGACAGAAGGACTTATCTCAGCCTCCAAGGCTGTGGGCTGGGG
 AGCCACTGTATGGTGGATGCAGCTGATCTGGTGGTACAAGGCAGAGGGAAATTTGAGGA
 GCTAATGGTGTGTTCTCATGAAATTGCTGCTAGCACAGCCCAGCTTGTGGCTGCATCCAA
 GGTGAAAGCTGATAAGGACAGCCCCAACCTAGCCCAGCTGCAGCAGGCCTCTCGGGGAGT
 GAACCAGGCCACTGCCGGCGTTGTGGCCTCAACCATTTCCGGCAAATCACAGATCGAAGA
 GACAGACAACATGGACTTCTCAAGCATGACGCTGACACAGATCAAAAGCCAGAGATGGA
 TTCTCAGGTTAGGGTGCTAGAGCTAGAAAATGAATTGCAGAAGGAGCGTCAAAAAGTGGG
 AGAGCTTCGGAAAAAGCACTACGAGCTTGCTGGTGTGCTGAGGGCTGGGAAGAAGGAAC
 AGAGGCATCTCCACCTACACTGCAAGAAGTGGTAACCGAAAAAGAATAGAGCCAAACCAA
 CACCCCATATGTCTAGTGTAAATCCTTGTTACCTATCTCGTGTGTGTTATTTCCCAGCCA
 CAGGCCAAATCCTTGGAGTCCCAGGGGCAGCCACACCACTGCCATTACCCAGTGCCGAGG
 ACATGCATGACACTTCCAAAGACTCCCTCCATAGCGACACCTTTCTGTTTGGACCCATG
 GTCATCTCTGTTCTTTTCCCGCCTCCCTAGTTAGCATCCAGGCTGGCCAGTGCTGCCCAT
 GAGCAAGCCTAGGTACGAAGAGGGGTGGTGGGGGGCAGGGCCACTCAACAGAGAGGACCA
 ACATCCAGTCTGCTGACTATTTGACCCCCACAACAATGGGTATCCTTAATAGAGGAGCT
 GCTTGTGTTGTTTGTGACAGCTTGGAAAGGGAAGATCTTATGCCTTTTCTTTTCTGTTTTC
 TTCTCAGTCTTTTTCAGTTTCATCATTTGCACAAACTTGTGAGCATCAGAGGGCTGATGGA
 TTCCAAACCAGGACACTACCCCTGAGATCTGCACAGTCAGAAGGACGGCAGGAGTGTCCTG
 GCTGTGAATGCCAAAGCCATTCTCCCCCTCTTTGGGCAGTGCCATGGATTTCCACTGCTT
 CTTATGGTGGTTGGTTGGGTTTTTTTGGTTTTTGTTTTTTTTTTAAGTTTCACTCACATAG
 CCAACTCTCCCAAAGGGCACACCCCTGGGGCTGAGTCTCCAGGGCCCCCAACTGTGGTA
 GCTCCAGCGATGGTGTGCCCAGGCCTCTCGGTGCTCCATCTCCGCCTCCACACTGACCA
 AGTGCTGGCCACCCAGTCCATGCTCCAGGGTCAGGCGGAGCTGCTGAGTGACAGCTTTC
 CTCAAAAAGCAGAAGGAGAGTGAGTGCTTTCCCTCCTAAAGCTGAATCCCGGCGGAAAG
 CCTCTGTCCGCCTTTTCAAGGGGAGAAGACAACAGAAAAGAGGGACAAGAGGGTTCAACAG
 CCCAGTTCCCGTGACGAGGCTCAAAAACCTTGATCACATGCTTGAATGGAGCTGGTGAGAT
 CAACAACACTACTTCCCTGCCGGAATGAACTGTCCGTGAATGGTCTCTGTCAAGCGGGCC
 GTCTCCCTTGGCCCAGAGACGGAGTGTTGGGAGTGATTCCCAACTCCTTTCTGCAGACGTC
 TGCCTTGGCATCCTCTTGAATAGGAAGATCGTTCCACCTTCTACGCAATTGACAAACCCG
 GAAGATCAGATGCAATTGCTCCCATCAGGGAAGAACCCTATACTTGGTTTGCTACCCCTTA
 GTATTTATTACTAACCTCCCTTAAGCAGCAACAGCCTACAAAGAGATGCTTGGAGCAATC
 AGAACTTCAGGTGTGACTCTAGCAAGGCTCATCTTTCTGCCCCGGCTACATCAGCCTTCAA
 GAATCAGAAGAAAGGCCAAGGTGCTGGACTGTTACTGACTTGGATCCCAAAGCAAGGAGA
 TCATTTGGAGCTCTTGGGTGAGAGAAAATGAGAAAAGGACAGAGCCAGCGGCTCCAACTCC
 TTTAGCCACATGCCCCAGGCTCTCGCTGCCCTGTGGACAGGATGAGGACAGAGGGCACA
 TGAAACAGCTTGCCAGGGATGGGCAGCCCAACAGCACTTTTCTCTTCTAGATGGACCCCA
 GCATTTAAGTGACCTTCTGATCTTGGAAAAACAGCGTCTTCTTCTTTATCTATAGCAAC
 TCATTGGTGGTAGCCATCAAGCACTTCCCAGGATCTGCTCCAACAGAATATTGCTAGGTT
 TTGCTACATGACGGGTTGTGAGACTTCTGTTTGTGACTGTGAACCAACCCCCATCTCCC
 TAGCCCACCCCCTCCCCAACTCCCTCTCTGTGCATTTTCTAAGTGGGACATTCAAAAAA
 CTCTCTCCCAGGACCTCGGATGACCATACTCAGACGTGTGACCTCCATACTGGGCTAAGG
 AAGTATCAGCACTAGAAATTGGGCAGTCTTAATGTTGAATGCTGCTTTCTGCTTAGTATT
 TTTTTGATTCAAGGCTCAGAAGGAATGGTGGTGGCTTCCCTGTCCCAGTTGTGGCAACT
 AAACCAATCGGTGTGTTCTTGATGCGGGTCAACATTTCCAAAAGTGGCTAGTCCTCACTT

FIGURE 1 (CONT'D)

CTAGATCTCAGCCATTCTAACTCATATGTTCCCAATTACCAAGGGGTGGCCGGGCACAGT
GGCTCAGCCTGTAAATCCCAGCACTTTGAGAGGCTGAGGTGGTAGGATCACCTGAGGTCA
GGAGTTCAAGACCAGCCTGTCCAACATGGTGAAACCCCCATCTCTACTAAAAATACCAA
AATTAGCCGAGCGTAGTGACGGGTGCCCGTAATCCCAGCTACTCAGGAGGCTGAGACAGG
AGAATCACCTGAACCCAGAGGCAGAGGTTGCAGTGAGCTGAGATCACGCCATTGTACTC
CAGCCTGGGCAACAAGAGCAAACTCCGTCTCAAAAAAAAAAAAAAATTACAAATGGGGC
AAACAGTCTAGTGTAATGGATCAAATTAAGATTCTCTGCCAGCCGGGCACAGTGGCGCA
TGCCTGTAATCCCAGAACTTTGGGAGGCCAAGACGGGATGATTGCTTGAGCTCAGGAGTT
TGAGACCAGGCTGGGCATCATAGCAAGACCTCATCTCTACTAAAATTCAAAAACAAAATT
AGCCGGGCATGATGGTGCATGCCTGTAGTCTCAGCTAGTTGGGGAGCTAAGGTGGGAGAA
TTGCTTGAGCTTGGGAAGTCGAGGCTGCAGTCAGCCCTGATTGTGCCAGTGCCTCCGGC
CTGGGTGACAGAGTGAGACCTGTCTCAAAAAAAAAAAGATTCTGTGTGAGAGCCAGCC
CAGGAGTTTGAGGCTGCAATGAGCCATGATTTCCCACTGCACTCCAGCCTGAGTGACAGA
GCGAGACTCCATCTCTTTAAAAACAAACAAAAAATTATCTGAATGATCCTGTCTCTAAAA
AGAAGCCACAGAAATGTTTTAAAACTTCATCGACTTAGCCTGAGTCATAACGGTTAAGAA
AGCACTTAAACAGAAGCAGAGGCTAATTCAGTGTACATGAGGAAGTAGCTGTCAGATGT
CACATAATTACTTTTCGTAATAGCTCAGATTAGAATGGCTACCCCATTTCTTAGACAAAAT
CAAATTGTCCTATTGTGACTCTTCTAAAAATGAAGATGAAGAGCTATTTAATGACACACC
TTGGATTAAAACGGGAATCACATCTTAAAGCTAAAAATGAACCTGCAAGCCTTCTAAATG
AGTCACTGAGCATCACTAGTGACAAGTCTCGGGTGAGCGTAAATGGGTCATGACAAGATG
GGACAGCAACAAAATCATGGCTTAGGATCGACAAGAAGTTAAAAACAGCTGCATCTGTT
ACTTAAGTTTTGTAAGACAGTGCCCTGAGACCTCTAGAGAAAAGATGTTTTGTTTACATAAG
AGAAAGAGGCCAGACATGGTGTCTCACACGTTTAATCCAGCACTTTGGGAGGCAGGGGC
GGGTGGATCACCTGAGGTGAGGAGTTCAAGACTAGCCTGGCCAACATGGTGAAACCCCGT
CTCTACTAAAAATAAAAAATTAGCCGGGCATGGTGGCAGGCGCCTATAATCCCAGCTAC
TGGGGAGGCTGAGGCAGGAGAATC

Gene 776. >OTTHUMT00007007406 cDNA sequence

ATGGATCGGATGGCCAGCTCCATGAAGCAGGTGCCCAACCCACTGCCCAAGGTGCTGAGC
CGGCGCGGGGTGCGCGCTGGGCTGGAGGCGGCGGAGCGCGAGAGCTTCGAGCGGACTCAG

Gene 777. >OTTHUMT00007007412 cDNA sequence

GGTGCCGGCGTGAGACGGGTGGGAACTGCTGGTGTCCAATCTAGGTTTTGAAGTATCA
GACACTGATATTTGGGAACTCTGCAGAATTTGGAACGCTGAAGAAGGCGGCTGTGCACTA
CGATGGCTCTGGCCGAGCTTAGGATCAGCAGACATGCGCTTTGAGCGGAAGGCACACGC
CCTGAAGGCCATGAAGCAGTACTACGGCACCCCTCTGGCTGGCCGCCCTGTGAACATTCA
GCTTGTACATCACAGATTGATACATAACAGACACCTGCACAGAGCGTAAACAGAGGTGG
CATGACTAGAAACCGTGGCGCTGGAGGTTTTGGTGGTAACGGAGGCACCCGGGGAGGCAC
CCGGGGAGGCACCCGTGGAGGCGACCGGGGAAGAGGCAGAGGCGCCGGCAGGAATTCAAA
GCAGCAGCTTTTCGGCAGAGGAGATGGACGCCTATAATGCCAGAATGGACACCAGT

Gene 778. >OTTHUMT00007007413 cDNA sequence

CCGCAAGGAAAGAAGGCCAAAGGGAAGAAGGTGGCTCCGGCCCCCTGCTGGCGTGAAGAAG
CAGGAGGCCAAGAAAGTGGTTTTATCCCGTTTGAGAAAAGGCCTAAGACTTTTGGCACTGG
ACAGGACTTCCAGGCCAAAACGGACCTCGCCCACTTTGTGCAATGGTCCTGCTCGGTGAG
GGTGCAGTGGCGGACAGCCATCCTCTATAAGTAGCAGAACTGTCTCCTGCTATTAAACCA
GTTACCCAGGCCCTGGACCGCCAAACAGCTATTTCAGCTGCTTAAGCTGGCCAGAAAGTA
CAGACCAGGGGCAAAGCAAGAGAAGAAGCAGAGACTGTTGGCCCTGACTGAGAAGAAAGC
TGCCAGCAAAGGGGACGTCCCACTAAGAGGCCACCTGTCTTGGAGCAGGAATTAACAC
CGTCACCACCTTGATGGAGAAACAAGACGCTCAGCTGGGCCAGGCACAGAAGGCTCAGCT
GGTGGTGACTCCACGCAACATGGGTCCCATCAAGCTGGCTGTCTTCTGCCTGTGCCTGT
GTGTAAAGTGGGGTCCCTGACTGCATCATCAAGGGGAAGGCAAGACTGGGATGTCTAGTC
CCCAGGAAGACCTGCACCACTGTGCTTTCACACAGGTTAACTTGAAGACAAAGGAGCT
TGGGCTAAGCTGGTGAAGCTACCAGGACCAATTACAACAACAAATGTGATGAGATCCGC
CATCACTGGGGAGGCAGTGTCTGGGTCCCAAGTCTGTGGCTCACATTGCCAAGCTCAAA
AAGGCAAAGACTAAAGAACTACCACTAACTGGGT

Gene 779. >OTTHUMT00007007414 cDNA sequence

FIGURE 1 (CONT'D)

CCTTATGTGACCTGGGGATTTCCAAATCTGAAGTCTGTCCAGAACTCATTTTGAAACGT
AGACAAGCCAAGGTCAAGAATAAGACCATCCCTCTGACAACACAGTGATTGAGGAGCAAC
TGGGAAAGCTTGGTGTCTTTTGCTTGGAAGACCTCATTCATGAAATTGCCTTCCCAAGGA
AGCATTTCCAGGAGATCTCATGGTTCTTGTCCCCTTTCCACCTCTCA

Gene 780. >OTTHUMT00007006487 cDNA sequence

ATGCCCTTCATGATCAACATGGGAGACTCCACGTTGGACACCAGCTCCACCGTGTCCGAG
GCGGTGGCCGAAGAAGTATCTCTTTTCAGCATGACGGACATGATTCTGTTTTTCGCTCATC
GTGGGTCTCCTAACCTACTGGTTTCTCTTCAGAAAGAAAAAGAAGAAGTCCCCGAGTTT
ACCAAATTTCAGACAACCTCCTCTGTTCAGAGAGAGCAGCTTTGTGGAAAAGATGAAGAAA
ACGATCTTGCAAAGCACGTTCAATTGGCTGAACCGAATTGGCTGCAACTCCAGCCCCAAC
GGGCTCTGGGGAATAGGATTTTTCAGGCTTTTCAACAGCTGCTGGAGGAGGAGGGTGGACTG
ACGGCTGTGACAGTGAGAAGCAAGTCCCAGAGGAACCTAGAAGGGACTCAAAGCCAGGAA
GGAAAGGGGGCGGCCTGGAGGGCCCCCGCTGCCAGGCCTGCCAGGGAGGAACATCATC
GTGTTCTACGGCTCCCAGACGGGGACTGCAGAGGAGTTTGCCAACCGCCTGTCCAAGGAC
GCCCCCGCTACGGGATGCGAGGCATGTTCAGCGGACCTGAGGAGTATGACCTGGCCGAC
CTGAGCAGCCTGCCAGAGATCGACAACGCCCTGGTGGTTTTCTGCATGGCCACCTACGGT
GAGGGAGACCCCCACCGACAATGCCAGGACTTCTACGACTGGCTGCAGGAGACAGACGTG
GATCTCTCTGGGGTCAAGTTCGCGGTGTTTTGGTCTTGGGAACAAGACCTACGAGCACTTC
AATGCCATGGGCAAGTACGTGGACAAGCGGCTGGAGCAGCTCGGCGCCAGCGCATCTTT
GAGCTGGGGTTGGGCGACGACGATGGGTTGGAGGAGGACTTCATCACTGGCGAGAGCAG
TTCTGGCCGGCCGTGTGTGAACACTTTGGGGTGGAAAGCCACTGGCGAGGAGTCCATTGCG
CAGTACGAGCTTGTGGTCCACACCGACATAGATGCGGCCAAGGTGTACATGGGGGAGATG
GGCCGGCTGAAGAGCTACGAGAACCAGAAGCCCTTTGATGCCAAGAATCCGTTCTGGCT
GCAGTACCACCAACCGGAAGCTGAACAGGGAACCGAGCGCCACCTCATGCACCTGGAA
TTGGACATCTCGGACTCCAAAATCTATGAATCTGGGGACCAAGTGGCTGTGTACCCAGCC
AACGACTCTGCTCTCGTCAACCAGCTGGGCAAAATCCTGGGTGCCGACCTGGACGTCGTC
ATGTCCTTGAACAACCTGGATGAGTCCAACAAGAAGCACCATTCCTCGTGCCTACGTCC
TACCGCACGGCCCTCACCTACTACCTGGACATCACCAACCCGCGCGTACCAACGTGCTG
TACGAGCTGGCGCAGTACGCTCGGAGCCCTCGGAGCAGGAGCTGCTGCGCAAGATGGCC
TCCTCTCCCGCGAGGGCAAGGAGCTGTACCTGAGCTGGGTGGTGGAGGCCCGGAGGCAC
ATCCTGGCCATCCTGCAGGACTGCCCGTCCCTGCGGCCCCCATCGACCACCTGTGTGAG
CTGCTGCCGCGCCTGCAGGCCCGCTACTACTCATCGCCTCATCCTCCAAGGTCCACCCC
AACTCTGTGCACATCTGTGCGGTGGTTGTGGAGTACGAGCAAGGCTGGCCGCATCAAC
AAGGCGTGGCCACCAACTGGCTGCGGGCCAAGGAGCTGCGGGGAGAACGGCGGCCGT
GCGCTGGTGCCCATGTTCTGTGCGCAAGTCCAGTTCCGCTGCGCTTCAAGGCCACCA
CGCTGTATCATGGTGGGCCCCGGCAACGGGGTGGCACCCTTCATAGGCTTCATCCAGGAG
CGGGCCTGGCTGCGACAGCAGAAGGAGGTGGGGGAGACGCTGCTGTACTACGGCTGCCGC
CGCTCGGATGAGGACTACCTGTACCGGGAGGAGCTGGCGCAGTTCCACAGGGAAGGTGCG
CTACCCAGCTCAACGTGGCCTTCTCCCGGGAGCAGTCCCAAGGTCTACGTCCAGCAC
CTGCTAAAGCAAGACCGAGAGCACCTGTGGAAGTTGATCGAAGGCGGTGCCACATCTAC
GTCTGTGATGCACGGAACATGGCCAGGGATGTGCAGAACACCTTCTACGACATCGTGGCT
GAGCTCGGGGCCATGGAGCAGCGCAGGCGGTGGACTACATCAAGAACTGATGACCAAG
GGCCGCTACTCCCTGGACGTGTGGAGCTAG

Gene 781. >OTTHUMT00007007439 cDNA sequence

TCCCACCTTTTCGGCAGCCTCTGCAGGCCAGCTCCTGTGTCCCGATGGCCTTTTTTTGCC
TGGCTTTGCCTCACCGCGGCCTCTTGAGGCGCAGCTTTTCCCTTCTGGCGACATCTCCAG
GCCAGAATTCCTCAAATCGGCCTCCCCCGGCCAGTTGCTGCTGCGGCCTCCTCTC
CGGGCCAGCTATTTGCTCATGGCTGCGCCACAGGCCAGCTCCTGCTCCAAACAGCC
TCCTTTGACTCGGCTCCTGCCCAGCTCCTGGCAACCTACATCGGCCCAAAGCCTGCTCCA
GTCCAGCTCTCAGGCCCGCCTCTTGCTCGCAGCGGCCTTTCCAGGCCAGCTCTCGCC

Gene 782. >OTTHUMT00007006497 cDNA sequence

ATGCTGACTCATCTGTCCCCTTTCTTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTA
GTAGAAGCTGCACCCCTGCCAGGGTCACCTATCAGGTCCTGAGGAAAAACGTTTACTCT
CCATCTGCATGGTACGTGCCGTTTGTTCATCACTTTGGGCTCCATATTGCTTCTGGGTCTC

FIGURE 1 (CONT'D)

CTCGTGTACCTGGTTCCTATTGGCCAAAGCCATCCACAGACACTGCCCCCTGCAAGACT
GGGAAGAACAAGGAACCTACAAAGAAAGGAACGAAGACTGCAGAGAGAGACGTCTGTGGTG
GAAACTATCCAGATGAACACTATCTTTGATGGAGAAGCCATAGATCCACAGGGCCAAGAA
TTTCCTCTTGGTCGGCAAGATGAACATAAGGTAGAGCTGGCCTCCAGAGCTCTCATCACC
CCCGTGAAATCAGCTCCAAATTTAGCTCCTTTTACACTCATCCCTCTGCTTACAAAGGCTC
AATTATAGACGTGAATAA

Gene 783. >OTTHUMT00007006498 cDNA sequence

AGCCGGCGCCGCTGCCACTCCCGGGAGCATGAAGGACCGAACCCAGGAGCTCCGCACGGC
CAAGGACAGCGATGATGATGATGATGTCTGCTGTACCGTGGACCGAGACCGCTTCATGGA
TGAGTTCTTTGAGCAGGTGGAGGAGATTTCGAGGCTTCATTGACAAGATCGCAGAGAACGT
GGAGGAGGTGAAGCGGAAGCACAGTGCCATCCTGGCATCCCCCAACCCCGATGAGAAGAC
GAAGGAGGAGCTGGAAGAACTCATGTCCGACATAAAGAAGACAGCAAAACAAAGTTCTGTTT
CAAGTTAAAGAGCATCGAGCAGTCCATCGAGCAAGAGGAAGGCCTGAACCGCTCCTCCGC
TGACCTGAGGATCCGGAAGACACAGCACTCCACGCTGTCCAGAAAGTTTGTGGAGGTCAT
GTCCGAGTACAACGCCACGCAGTCCGACTACCGCGAGCGCTGCAAGGCCCGCATCCAGAG
GCAGCTGGAGATCACCGGCAGGACCACGACCAGTGAGGAGCTGGAGGACATGCTGGAGAG
TGGGAACCCCGCCATCTTTGCTCTGGGATCATCATGGACTCCAGCATCTCGAAGCAGGC
TCTGAGCGAGATTGAGACGCGGCACAGTGAGATCATCAAGCTGGAGAACAGCATCCGTGA
GCTACACGACATGTTTCATGGACATGGCCATGCTCGTGGAGAGCCAGACTATGTGGAGAGG
GCCGTGTCTGACACCAAGAAGGCCGTCAAGTACCAGAGCAAGGCGCGCCGGAAGAAAATC
ATGATCATCATCTGCTGTGTGATCCTGGGCATCGTCATCGCCTCCACTGTTGGGGGCATC
TTCGCCTAGAAGCCACCCAACTGCCACTCCACTCCAGGTGGGCCACTCCAAGGAGGCC
TGGCTGCTGCCACCTGGCTGGGCTGCCCTCCCAACCCCGCCTCTGGCTCAGAGCACCT
CCCTCCCGCCCCCATGCTCCCTTCTCTGCCATGGGCCCTCCGTCCCCGCCCCGTGTCT
GTGCATGATCTCTGTGAGTGTGCGTCTGTACGGGAAGAGGCAGAGGGAGGCAGCCAGCGG
GGCGTGATGCAGTGTGCACAGCGAGGAGCAGACCCAGGCAGGGCCGCCAGGGTGACACAG
GCCACCTTCTCTTGCTTCAGTAACTCGGTGGGCCCAGGTTCTGCTCTTCCCTGGGGACC
CTAACCTCGCCTCCAGCTGACCTGCCCTGTCTCTCCAGCTGTCCCCACAAGCAGAGCCC
TGAGGGGTGGGGACAGCTGGCCACATGGTGTCTTTTTCAGGTTAGGGGAGAGGTGGCC
CTGAGGGACAGCCAGCTCTGAGTCTCAGTCGCTGATCACTGCCAGGGAGGCTCAGGCTG
CCATGGCTCCAGGCTCCCTCCCTGCTAGGGGCAAAGTCCATCGGGTCCCTGGGCCCTCAG
CTTCCCTTCCCATTCCTCCGGCCCCAGGAGCAACCCCTTGGGCTAGGTCTGACCCCAG
GTGTCCCTCTGGAAGGGGCTGGCTGGTGCCCTATTTCCAGCCACCCAGCAGCTAGGGAG
GCAAAGCAGGCTGCAGTCAGTCCCTCAAGCCAGCGTTGCATGTTTGGGATGGTGGCTCCT
GTTGTCTTGCGCTCTGGGAAGTCAGATGTCAATTTAGGCCTGCAGTCTCATCCTGCCCTT
GCCATCCTCCCATCGATGTGCCACGTGGGTGTACGTGTCCAGATGCAGTATTTCGGCAG
CCAGCCGGGGAGGGCTACCTCCTCCTCCTCACCACCTTGGGGCTTCTCATGGGAAATGTG
CCCCCGCCCCAGGACCTCTCCCTTGTGGAAGGAGGAGATGCATGCGAGTGCATGCA
GCAGGGGATGGGGCCGTGTCCGTGTGCCCCACCTCCCTCGGCTTTACTCCTGCCCAGTG
ACTGTGACCACTGTCCGTGTTGCCTTCTTGAACAGCGATTCCCCCAACCCCTTACCAA
AGGTCTTGGTACAACCAGCTGCCCATTTTGTGAAATTTTATGTAGAATAAACATTTGTA
TCTGTA

Gene 784. >OTTHUMT00007007443 cDNA sequence

GGAATTCATGTGCATCAGTCAGACCTCCTGTGCAAGGAAGGATGTGGTTACTACGGCAAC
CCTGCCTGGCAGGGTTTCTGCTCCAAGTGCTGGAGGGAAGAGTACCACAAAGCCAGGCAG
AAGGAGATTAGGAGGACTGGGAGCTGGCGGAGCGACTCCAGTGGGAGGAAGAGGCCTTT
GCCAGCAGTCAGAGCAGCCAAGGGGCCAATCCCTCACATTCTCCAAGTTTGAAGGAAAG
AAAACCAACGAGAAGACCCACGAGGTTACCACAGTGAAGAAATCTTCAGTGCGTCTTCCA
GGGTCCGATCAAAGAAGGAAATTAGGAAGCAAAAGCCAGTCTTCCATAAACCGGCGAA
CCAGCATTGAAACGGATAGAGTGTCTAAGGAGTTCATAGAATTTCTCAAGACCTTCCACA
AGACAGGCCAAGAAATCTATAAACAGACCAAGCTGTTTTTGAAGGGATGCATTACAAA
GGGTAGTCAAGGTGATCACAAGTGCCATGAGTGTCTGGCCATTTTCACTGAGGGAATGA
GCTTTTCTGTCTGTTTGGCTATTTTCAGTGCCTCCAGAAAGGGTTGAGAAGATAATGGATC
AGATTGAAAGTACATCATGACTCATCTCTGTAAATATGCGTTCTGTCCAGAACCCCATG

FIGURE 1 (CONT'D)

TGGTGGCACGATCTCGGCTCACTGATGATGAGAAGAAAGATCTTGCCATTCAAAAGAGGATCAGG

Gene 785. >OTTHUMT00007007445 cDNA sequence

GCGGCTCCATGCGTGAGGCTGGTGCCACGCGGTCTCCCGGTGTTGGCATTGTCTCCAGGC
CTTCTCCTCAGTTCTGCACACAGCTACAAAACAAAAGAACAGTTGCCAGCACTTGGAAGA
GGATGTGGATCCAAACCAAATGGAGGACAGATACTCCCTCTATGGACAAGATACTCATGG
AAGAAGTCAAGTTAGAAGAGCAGCTGAAGGAGGCTGTGGAAGAAGATAAGCAAGCACTGG
CAGATACTGAGGGCTCAGAGCAGAGCAGCCAAAATTGGTGGAGGAGGGAAATATGTATA
GCATTGAGGGCTTCTGCAAGGACTCGTTAGAGGTTGCAGATGTTTTGGAGAAGGCAACAC
AGTGTGTTCCAGAAGAAGAAATTAAAGACAATAACCCCTCACCTGAAGAACCTCTCTCTGT
GAGACTCACAATGAGTGAAGTCCAGATTGAGGAAGTGTTCAGCAAGCACTGCCAAGATGA
ACTCTGTACAGCAAGTTCACCCCTTATGAGCGTGAGGGTCTTTTT

Gene 786. >OTTHUMT00007007446 cDNA sequence

GGGAGCTCATCTCGGCCAGCCTCTTTGAAAGGAGGAACATTGGTGCAGCCATTGGAAC
CTTATCCTTTATAAAATGGGACAGCTCACAGGATTACATTTT

Gene 787. >OTTHUMT00007007447 cDNA sequence

AGGTGAGACAAGGGCAGCATGTCTGAAGACTGCGGGCCAGGAACCTCTGGGGAGCTGGGT
GGGCTGAGGCCGATCAAAATTGAACCAGAGGTTCTGGACATCATTGAGGTCACTGTCCCA
GATGCCTTGCCAACCTCTGAGGAAATGACAGACTCAATGCCTGGGCACCTGCCATCGGAG
GATTCTGGTTATGGGATGGAGACGCTGACAGGAAGGCCCTCAAAGGGCTCTGGCAGCTT
TGCCCCCTACACAGGCATGAGACACAGGGGTTGAGATTCTTGGCCCTGTGGCACCGGGTG
GCCTTACAGCAGCCATGTCTCTGCAGCCAAGGCCATTGGCATCTCGGAGCCCGTCAAGGT
GCCATACTCCAAGTTTCTGATGCACCCGGAGGAGCTGTTTGTGGTGGGGCTGCCTGAAGG
CATCTCTCTCCACAGGCCCAACTGCTTCGGGATCGCCAAGCTCTGGAAGATTCTGGAGGC
CAGCAACAGCATCCAGTTTGTTCATCAAGAGG

Gene 788. >OTTHUMT00007007472 cDNA sequence

AATGGAAACCAGAAATCAGATATTTATGCCCAAGCAAAGCAGGATTTCTGTTGAGCACTAC
TCCCAGATCGTTAGGGTGCTGACTGAGGATGAGATGGGGCACCCAGAGACAGGAGATGCT
ACTGCCCCGGCTCAAGGAGGTCCTGGAGTACAATGCCATTGGAGGCAAGTATCACCGAGGT
TTGATGGTGCTAGTAGCGTTCCGGGAGCTGGTGGAGCCGAGGAACTGGATGCTGATAGT
CTCCAGTGGGCACCGACTGTGGGCTGGTATGCGCAACTGCTGCAAGCTTTCTTCTGGTG
GCAGATGACATTATGGATTATCCCTTACCTGCCAGGGACAGATCTCCTGGTATCAGAAG
CTGGGCATGGGTTTGGATGCCATCAATGATGCTATCCTTCTGGAAGCATGTATCTACTGC
CTGCTGAAGCTGTATTGCCGGGAGCAGCCCTATTACCTGAACCTGATGGAGCTCTTCCAG
CAGAATTCTTATCAGACTGAGATTGGGCAGACCCTCGACCTCATCACAACCCCCCAGGGC
AATGTGGATCTTCGAGATGCACCGAAAAAAGGCACAAATCTGTTGTCAAGTACAAGACA
GCTTTCTACTCCTTCTACCTTCTGTAGCTGCAGCCATGTACATGTCAAGAATGGATGAC
AAGAAGGAGCACACCAAGTGCCCAAGAAGATCCTGCTGGAGATTCAAGAGTTCTTTGAGATT
CAGGATGATTACCTTGACTTCTCTGGGGACCCAGTGTGACTGGCAGAGTTGGCAATGAC
TTCCAGGACAACAAATGCAGCTGGCTGGTGGTTCAGTGTCTGCTACAGGCCACTCCAGAA
CAGTACCAGATCTGAAGGAAAATTACAGGCAGAAGGAGGCCGAGAAGGTGGCCCCGGGTG
AAGGCACTATACGAGGAGCTGGATCTGCCAGCCGTGTTCTTGAGTATGAGAAAGACAGT
TACAGCCACGTTATGGGTCTCATCGAATAGTACGCAGAGCCCCCTGCCCCAGCCATCTTT
CTGGGGCTTGTGCACAAAATCTACAAGTGGAAGG

Gene 789. >OTTHUMT00007007474 cDNA sequence

GTGTGTCTCTCAGAGGCCTGGCGCCGGCCGTGCTGTACGGTGAGCCCCAGGGAGGCGGAT
CTGGGCCCCGAGAAGGACACCCACCTGGATTTGCCCCATAGGCCCGGCCCGGGCCCCCTCG
GGAGCAGAACAGCCTTGGTGAGGTGGACAGGAGGGGACCTCGTGAGCAGACGCGTGCGCC
AGCGACAGCAGCCCGCCCCGGCCTCTCAGGAGCCGTGGGGCAGAGGCTGCGGAGCCCCAG
GAGGGTCTATCAGCCACAGTCTCTGCAAGTTTCCAAGAGCAGCAGAAAATGAACACATTG
CAG

Gene 790. >OTTHUMT00007007476 cDNA sequence

AGCGATGTCAACATTTCTACCTGCCACGCATCGGTGAAGGTTGGGACTCGACTGGTGTTC
GATCACGATGGGAAAATCATCCAGAAAACCCCTACCCCCACCCAGAGGGACCACAGTC

FIGURE 1 (CONT'D)

AGCGTGAAGCAGTTATTTTCTACACTACCTGTGCGCCATAAGGAATTTCAAAGGAATGTT
AAGAAGGTACAACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTGTCAGTTTCCTGAG
GCCTCCCCAGCCATGCTTCCCTGTACAGCCTGCAGAACTGACTCCTAGAAGGACCCACCC
CCCTCCCCCACCCTGCTCCCAGGAGGACAACGTGATCACTGTATTGAGCTCCATCAAG
AATGGTCCAGGTTCTTCTAGA

Gene 791. >OTTHUMT00007006825 cDNA sequence

AGCGACCGCAGCCGGGGGGACGCGGGAGGATGGAGCAAGTGGAGATCCTGAGGAAATTCA
TCCAGAGGGTCCAGGCCATGAAGAGTCCTGACCACAATGGGGAGGACAACTTCGCCCCGGG
ACTTCATGCGGTTAAGAAGATTGTCTACCAATATAGAACAGAAAAGATATATCCACAG
CCACTGGAGAAAAAGAAGAAAATGTTAAAAAGAACAGATACAAGGACATACTGCCATTTG
ATCAGAGCCGAGTTAAATTGACATTAAAGACTCCTTCACAAGATTGAGACTATATCAATG
CAAATTTTATAAAGGGCGTCTATGGGCCAAAAGCATATGTAGCAACTCAAGGACCTTTAG
CAAATACAGTAATAGATTTTTTGAGGATGATATGGGAGTATAATGTTGTGATCATTGTAA
TGGCCTGCCGAGAATTTGAGATGGGAAGGAAAAAATGTGAGCGCTATTGGCCTTTGTATG
GAGAAGACCCCATACGTTTGCACCATTTAAAATTTCTTGTGAGGATGAACAAGCAAGAA
CAGACTACTTCATCAGGACACTCTTACTTGAATTTCAAATGAATCTCGTAGGCTGTATC
AGTTTCATTATGTGAACTGGCCAGACCATGATGTTTCTTCATCATTTGATTCTATTCTGG
ACATGATAAGCTTAATGAGGAAATATCAAGAACATGAAGATGTTTCTATTTGTATTCAAT
GCAGTGCAGGCTGTGGAAGAACAGGTGCCATTTGTGCCATAGATTATACGTGGAATTTAC
TAAAAGCTGGGAAAATACAGAGGAATTTAATGTATTTAATTTAATACAAGAAATGAGAA
CACAAAGGCATTCTGCAGTACAAACAAAGGAGCAATATGAACTTGTTTCATAGAGCTATTG
CCCAACTGTTTGAAAAACAGCTACAACATATGAAATTCATGGAGCTCAGAAAATTGCTG
ATGGAGTGAATGAAATTAACACTGAAAACATGGTCAGCTCCATAGAGCCTGAAAAACAAG
ATTCTCCTCCTCCAAAAACCAAGGACCCGAGTTGCCTTGTTGAAGGGGATGCTAAAG
AAGAAATACTGCAGCCACCGGAACCTCATCCAGTGCCACCCATCTTGACACCTTCTCCCC
CTTCAGCTTTTCCAACAGTCACTACTGTGTGGCAGGACAATGATAGATACCATCCAAAGC
CAGTGTTGCATATGGTTTTCATCAGAACAAACATTGAGCAGACCTCAACAGAACTATAGTA
AATCAACAGAACTTCCAGGGAAAAATGAATCAACAATTGAACAGATAGATAAAAAATTGG
AACGAAATTTAAGTTTTGAGATTAAGAAGGTCCCTCTCCAAGAGGGACCAAAAAGTTTTG
ATGGGAACACACTTTTGAATAGGGGACATGCAATTAATAATTAATCTGCTTCACCTTGTA
TAGCTGATAAAATCTCTAAGCCACAGGAATTAAGTTGAGATCTAAATGTCCGGTGATACTT
CCCAGAATTTCTGTGTGGACTGCAGTGTAACACAATCAAACAAAGTTTTGAGTTACTCCAC
CAGAAGAATCCCAGAATTCAGACACACCTCCAAGGCCAGACCGCTTGCCTCTTGATGAGA
AAGGACATGTAACGTGGTCATTTTCATGGACCTGAAAATGCCATACCCATACCTGATTTAT
CTGAAGGCAATTCCTCAGATATCAACTATCAAACCTAGGAAAACTGTGAGTTTAACACCAA
GTCCTACAACACAAGTTGAAACACCTGATCTTGTGGATCATGATAACACTTCACCACTCT
TCAGAACACCCCTCAGTTTTACTAATCCACTTCACTCTGATGACTCAGACTCAGATGAAA
GAAACTCTGATGGTGCTGTGACCCAGAATAAACTAATATTTCAAACAGCAAGTGCCACAG
TTTCTGCTGCCACTAGTACTGAAAGCATTCTACTAGGAAAGTATTGCCAATGTCCATTG
CTAGACATAATATAGCAGGAACAACACATTGAGGTGCTGAAAAAGATGTTGATGTTAGTG
AAGATTACCTCCTCCCCTACCTGAAAGAACTCCTGAATCGTTTTGTGTTAGCAAGTGAAC
ATAATACACCTGTAAGATCGGAATGGAGTGAACTTCAAAGTCAGGAACGATCTGAACAAA
AAAAGTCTGAAGGCTTGATAACCTCTGAAAATGAGAAATGTGATCATCCAGCGGGAGGTA
TTCATATGAAATGTGCATAGAATGTCCACCTACTTTGAGTGACAAGAGAGAACAAATAT
CAGAAAATCCAACAGAAGCCACAGATATTGGTTTTGGTAATCGATGTGGAAAACCCAAAG
GACCAAGAGATCCACCTTCAGAATGGACATGATTGAGGAGCTAGAAGACACTTTAAGTT
ATACTGGAAAATTGAGGTGCCACTGAAAGCCAGATTTATAGTATTCCATCTTTAATATGT
GGGACTAACAGCAGTGTAGATTGTTACCTTAATATTTTTGCTGGGACCATCTACCTGCC
TTATACTACACTTAGGAAAAAGTATTACATATGGTTTATTTTGAACTTCAAGTATTATT
GCCTTAATGTCTCTTAAACCTGTTACACGCTGCTTGTAGACATGTTAATATAGTAATACC
TTTATGATATATTGAGTTAAGGACTACTCTTTTTCTGTTTTATCATGTATGCATTATTT
TGTATATGTACAGGGCAAGTAGGTATATAATTTGATAAAGTTGCAATTGAAATATTATTA
ACAGAAGATGTAAGAAATTTCTGCATGGTCTAAATCTTTGTGTACTTTATTTGTAAATTA
TTTGCCCTGGAGTTTTAGAAAATAGTTTCTGAATTTTAAACTTGCTGGATTTCATGCAGCC

FIGURE 1 (CONT'D)

AGCTTTGCAGGTTATCAGAGATCAAAGATTGTAATAATAATTTTGTAATTTGTAAGCAA
AAGTTATTTTTATATTATATACAGTCTAATTGTTTCATCCTAATTGTTCTGTTTTCATCT
AGTCAGAGATTTCAGTAAGTGCCTTGGAACAATATTGAATTCTCTTAGCTTGTGTGTGTTT
CTTTAATATTTGAACTCAAGTGGGATTAGAAGACTATCAAAATACATGTATGTTTCAGGA
TATTTGACCTGTCATTAAAAAAAACAAACAGTTTTTACAGTG

Gene 792. >OTTHUMT00007006838 cDNA sequence

TCTCCGGCGGCTGCGGCGGCTGGAGCAGGCGAGCGGCGGCGCCGATAGCGAGTGTCAAG
GCCGGCCGGGGCGGCGCTTCTCGGCCTGTGCTGGTCGGCCTCCTACTGTACCTCGTGCC
TGCTGCGGCTGCGCTGGCCTGGCTGGCCGTGGGGACTACCGCGGCCCTGGTGGGGACTGAG
CCGCGAGCCCCGAGGTTGCGGCCCCCTTGTCTCTCTTCGTTCAGAAGGCGCGACATCGGCG
AACACTGTTTCGCTTCGCCTCCGGCCAAGTCGACAGCCAACGGAAACCTCCTAGAGCCGCG
GACCTTGCTCGAAGGACCTGACCTTGCCGAACTGCTCCTCATGGGCAGTTACCTGGGCAA
GCCCCGGGCGCGCGCAGCCCGCCCCCGCTCCGAGGGCCAGGACCTGCGGAATAGGCCCTGG
CCGCCGCCCGCCCGCCCGGCGCCGCGCTCCACACCGCCCTCCCGCCGACCCATCGCGTT
CACCACTTTTACCCTCTCTCCCCACTCCTCTTCTCCGACCTCCGGGAGGCCCTTCCCCA
CGGGATCGTGGGACTTTACCAGATCGGTTTGTAAATAACACCTCGAAGACGCTATCCGATC
CATCAGGCCCAGTATTCTGTCCGGGGGTACTTCCACAGTGTGCTGGAATGGTTATCAC
AAGAAGGCTGTGCTGTCCCCTCGCAACTCCAGGATGGTGTGTAGCCAGTGACTCTGAGG
ATCGCCCCCTCTGACAGAAGATTTTCGCGTTCTGCGATACCAGAGCAGATAATCAGCTCA
ACACTGTCTCTACCATCAAGTAATGCCCCAGACCCATGTGCAAAGGAGACTGTACTGAGT
GCCCTCAAAGAGAAGAAGAAGAAAAGGACAGTGGAGGAAGAAGACCAAAATATTCCTTGAT
GGCCAGGAAAATAAAAGAAGCTGTCTTGTGCGACGGTCTCACTGATGCCCTCTTCTGCATT
AAAGTTCTCGACCCGGGCCAGATACACTCCAGTTCACAGTGGATGTCTTCCACTTTGCT
AATGACTCCAGAAACATGATATACATCACCTGCCACCTGAAGGTCACCCTAGCTGAGCAG
GACCCAGATGAACTCAACAAGGCCTGTTCTTTCAGCAAGCCTTCCAACAGCTGGTTCCCA
GTGGAAGGCCCTGGCTGACATCTGTCAATGCTGTAACAAAGGTGACTGTGGCACCTCAAGC
CATTCAGGAGGCAGCCTCGTGTGCTGAGCCAGTGGTCCACGCTCTGCTTCCCTGTAACCG
CAGGCATGTGACAGAAGAAGCAGATGTACCCGTGGGGCCACTGATCTTCCCTGGACGGAG
GGGTGACCATGAAGTAGAGCAGTGGGCTTTGCTTCTGACCTCAGTCAGTGGTGTGCTGGG
CGTAGGCCTGGCTGTGGTGGTGTCCCTGACTCTGACTGCTGTTATCCTGGTTCTCACCAG
GAGGTGTGCGACTGCCTCCACCCCTGTGTCTGCTTCCGAATAAAAGAAGAAAGCAA

Gene 793. >OTTHUMT00007006839 cDNA sequence

ATGGCTTGGCAGGTGAGCCTGCTGGAGCTGGAGGACTGGCTTCAGTGTCCCATCTGCCTG
GAGGTCTTCAAGGAGTCCCTAATGCTACAGTGCGCCACTCCTACTGCAAGGGCTGCCCTG
GTTTCCCTGTCTTACCACCTGGACACCAAGGTGCGCTGCCCATGTGCTGGCAGGTGGTG
GACGGCAGCAGCTCCTTGCCCAACGTCTCCCTGGCCTGGGTGATCGAAGCCCTGAGGCTC
CTGGGGACCCGGAGCCCAAGGTCTGCGTGCACCACCGGAACCCGCTCAGCCTTTTCTGC
GAGAAGGACCAGGAGCTCATCTGTGGCCTCTGCGGTCTGCTGGGCTCCACCAACACCAC
CCGGTCA CGCCCGTCTCCACCGTCTGCAGCCGCATGAAGGAGGAGCTCGCAGCCCTCTTC
TCTGAGCTGAAGCAGGAGCAGAAGAAGGTGGATGAGCTCATCGCCAACTGGTGAAAAAC
CGGACCCGAATCGTCAATGAGTCGGATGTCTTCAGCTGGGTGATCCGCCGCGAGTTCAG
GAGCTGCGCCACCCGGTGGACGAGGAGAAGGCCCGCTGCCTGGAGGGGATAGGGGGTCAC
ACCCGTGGCCTGGTGGCCTCCCTGGACATGCAGCTGGAGCAGGCCCAGGGAACCCGGGAG
CGGCTGGCCCAAGCCGAGTGTGTGCTGGAAAGTTTCGAAATGAGGACCACCATGAGTTC
ATCTGGAAGTTCCACTCCATGGCCTCCAGGTAA

Gene 794. >OTTHUMT00007006851 cDNA sequence

CGCTTCCTGCGCCTCTTCAGGTACCGCTTGCTCTAGTTCCAGGCCTTGGCCTCTAGTG
GATGAGAATCACCGAGTCTGCGGGGCTGGACGCTGACCGCCGGGCCAGCACCTAGGCGG
GCGGGAGCTGTGCGGCCAGGGTTCTGCGCGGGGCCGGGTAGAGGCTCGAGCCGGGACCCCC
GAGCGTGAACCCCGGAGCCAGCGGCGCTGGGGCCAGAGGGGCCAGGCGGGAGGTGTTGGC
GGAGGCGAAGGGGCGACGGGACCTGGGCCTGGCCCCGTGTGTGTCTCTCGGCGGCTTGGCGC
CGGCCGTCTGTACGGTGAGCCCCAGGGAGGCGGATCTGGGCCCCGAGAAGGACACCCG
CTTGGATTTGCCCCGTAGGCCCGGCCCGGGCCCCCTCGGGAGCAGAACAGCCTTGGTGAGG
TGGACGGGAGGGGACTTCGCGAGCAGACGCGCGCGCCAGCGACAGCAGCCCGCCCCGGC

FIGURE 1 (CONT'D)

TCTCGGGAGCCGTGGGGCAGAGGCTGCAGAGCCCCAGGAGGGGGCCAGTGTCAATTCAAAG
ATGTGGCTGTGGATTTCACCCAGGAGGAGTGGTGGCAACTGGACCTTGATGAGAAGATAA
CATACGGGGATGTGATGTTGGGAGAACTACAGCCATCTAGTTTCCCTGGCTTATGAGGTGG
CAACATCTTGTACTTCGGAGATCTGAAGCCGAGCAACTTGCCCAAGTCCTTCTTCTTTT C
CCATTAAACAAGATATGATATCACCAAGCCAAACGTCAATTAAGTTGGAGCAGGGAGAG
GAGCTGTGGATAACGGGAGGTGAATTTCCATGTCAACATAGTCCAGCCCTTACATCCTC
AGCCGAAGATCTCACTTCCTCCAGAGGCCTTTGCTGACTGACCCCTCAGGGATTGTGGG
ACTTTACCAAATCGGTTTGTAAATAACACCTAGAAGACGCTATCCGATCCATCAGGCCAG
TATTCTGTCTGGGGTACTTCCCACCGTGTGCTGGAATGGTTATACAAGAAGGCTGTG
CTGTCCCCTCGCAACTCCAGGATGGTGTGTAGCCAGTGAAGTGTGAGGATCGCCCTCCT
GACAGAAGATTTTCGCGTTCTGCGATACCAGAGCAGATAATCAGCTCAACACTGTCCTCA
CCATCAAGTAACGCCCCAGACCCATGTGCAAAGGAGACAGTACTGAGTGCCCTCAAAGAG
AAGGAGAAGAAAAGGACAGTGGAGGAAGAAGACCAAATATTCTTGATGGCCAGGAAAAT
AAAAGAAGGCGCCATGATAGCAGTGGCAGTGGACATTGAGCATTGAGCCCTGGTGGCC
AATGGAGTCCCCGCTTCTTTTGTGCCTAAGCCTGGGTCTCTGAAGAGAGGCCTCAATTCT
CAGAGCTCAGATGACCACTTGAATAAGAGATCCCGAAGCTCTTCCATGAGCTCCTTGACA
GGCGCTTACGCAAGTGGCATCCCTAGCTCCAGCCGCAATGCCATTACCAGTTCCTACAGC
TCCACTCGAGGCATCTCAAGCTCTGGAAGAGAAATGGCCCCAGTTCATCACCTTCTCT
AGCCCGCCTCCTCCCGCTCCCAGACACCGGAGAGGCCAGCAAAGAAAATAAGAGAAGAG
GAGCTGTGTCACTATTCCAGTTCCTCAACTCCATTGGCAGCAGACAGGGAGTCCAGGGA
GAAAAGGCTGCAGATACAACCCCAAGGAAGAAACAAAACCTCGAATTCTCAGTCTACACCT
GGCAGCTCTGGGCAGCGTAAGCGGAAAGTTGAGTGTGCTTCTCGGCGAGGGGAACAG
CTGACCTTGCCTCCACCTCCCCAGCTTGGCTATTGATCACTGCCGAGGACCTAGACTTA
GAGAAGAAGGCTTCATTACAGTGGTTCAACCAGGCCTTGGAGGACAAGAGCGATGCTGCC
TCGAACTCTGTCACTGAGACCCACCTATCACTCAGCCTTCATTTACCTTTACCTTGCT
GCTGCTGCACCTGCCTCCCCACCCACCTCCCTCCTGGCCCCAAGCACCAACCCACTGTTA
GAGAGCTTGAAGAAGATGCAGACTCCCCGAGCCTGCCACCCTGCCAGAATCTGCTGGA
GCAGCAACCACTGAGGCCCTCTCACCTCCAAAGACACCCAGCCTCCTACCCCGCTGGGT
TTATCACAGTCAGGGCCGCCAGGGCTGCTCCCCAGCCCTCCTTTGACTCCAAACCCCCG
ACCACTTTGCTGGGGCTGATCCCTGCTCCATCCATGGTACCAGCCACTGACACCAAGGCA
CCTCCAACCTTCAGGCAGAGACGGCTACCAAACCCCAAGCCACATCTGCCCCGTCCCCC
GCCCCCAAGCAAAGCTTCTGTTTGAACAACAGAACCTCACTTCCAGCCCTGCCGCC
CCTGCTGCATCTTCAGCACCTCCCATGTTCAAGCCCATTTTACGGCTCCACCCAAGAGT
GAGAAGGAAGGCCCCACACCGCCTGGCCCTTCAGTCACAGCCACAGCGCCCTCCAGCTCC
TCCCTCCCCACGACCACCAGCACACAGCCCCGACCTTCAGCCTGTCTTTAGCAGCATG
GGGCCACCTGCATCTGTGCCCTTGCTGCTCCCTTCTTCAAGCAGACAACTACTCCCGCC
ACTGCTCCCACCAACTGCCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTG
GCTCCCATCACCTCTGCCAGTCCATCCACAGACTCTGCTTCGAAGCCTGCGTTTGGCTTT
GGCATAAACAGTGTGAGCAGCAGCAGTGTGAGTACCACGACCAGCACCGCCACTGCCGCC
TCACAGCCTTTCTCTTCGGGGCGCCCCAGGCCTCTGCTGCCAGCTTCACCCCGGCCATG
GGCTCCATATTCCAGTTTGGCAAACCTCCTGCCTTGCCCAACCAACCAAGTCACCAAC
TTCAGCCAGTCCCTGCACACTGCCGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTT
AGTGGTTTTTGGCAGCACCTCGCCACCTCCGCCCCGGCCACCAGCAGCCAGCCACTCTG
ACGTTCAGTAACACGAGCACCCCCACGTTCAACATTCCCTTTGGCTCAAGCGCCAAGTCC
CCGCTCCCATCATATCCGGGAGCCAACCCCCAGCCCGCATTTGGGGCCGCTGAGGGGCAG
CCACCGGGGGCCGCAAGCCGGCCCTTGCCCCAGCTTTGGCAGCTCTTTCACTTTTGA
AACTCTGCAGCCCCGGCTGCTGCACCCACACCTGCACCTCCGTCCATGATCAAGGTCGTG
CCTGCGTACGTGCCTACGCCCATCCATCCTATCTTTGGCGGTGCCACGCACTCGGCGTTT
GGGTTGAAAGCCACGGCTTCGGCCTTCGGCGCTCCCGCCAGCTCACAGCCCGCTTTGGC
GGCTCCACTGCTGTCTTCTTCGGTGCAGCCACCAGCTCCGGCTTTGGAGCCACCACCAG
ACCGCCAGCAGCGGGAGCAGCAGCTCGGTGTTTGGCAGCACAAACCATCACCTTACG
TTTGGGGGTTTCGGCAGCCCCCGCTGGCAGTGGGAGCTTTGGGATCAATGTGGCCACCCCA
GGCTCCAGCACCAACACCGGAGCTTTCAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCC
ACCTCCACCCCTTCGAGGGGGCTTAGGTGAGAACGCCCTGGGCACCAACCGGCCAGAGC

FIGURE 1 (CONT'D)

ACACCGTTTGCCTTCAACGTGAGCAGCACAACTGAGAGCAAACCTGTGTTTGGAGGCACC
GCCACCCCCACCTTTGGTCTGAACACCCCTGCGCCTGGAGTGGGCACATCAGGCAGCAGC
CTCTCCTTTGGGGCATCCTCAGCACCCGCCAAGGCTTTGTTGGTGTTCACCTTTCGGC
AACACTTTTGCTCACAGCAAGAACACAGCCCGAGGAAGGGACCAATAACCTTTCAAAA
CGCAAACCTGCTGCGGTGAGGGCCAGGGTCTTCCACGGAGAGGACAGGCATCTTCC
TTTCCCACCAGGAAGGAGTGAGCCCGAGCCTCTGCTATGTGCAAGGCGGTGTGCAAGCA
CCGGCTGCAGCTTTTTGCTCTCTTCTTTCTCTTTGGGGCTGGGCTGGGTGTGCGTTCTGG
TGCTGATGCTTTGGCCTGTGAGGCTGAGCTAGAGAAATGTAGATGTTAGATGTGCCAGTA
CCATCCTGCGCCTCCCAAGCATGCCCCACTCACTCACGTCCGCATCTCGACCCGTTCAA
TTACAGCAACGAAGAAGCCACCGCTAAGCGTGGTCTTGGGGGAAGCCCGGAGGCAAGTCT
CGGCACCCGGGAACGTGCTCAGGCCTCGGTGGGGCCGGGCAGGCAGGGCGGGAGCTAGCC
TGCAAGAGAAACAGCCCCAATGCTGGGTAAGAGAGCAGTTCACCCCATCCCCCCTCCAC
GACCCTGGCGCACGCCCTGTACCTGAAGGCGCCGGGTCTGCTGCAGCGCATCTTGTA
CATGTCTTCATTCTCCTCCTGGCAGAGGGAGCACATGGAGTAGACGAGCCGCTGCAGGGA
AGGGAAAGTGAGCGCGTGGCACAGGGCTCGCTGCTGGAACCTGCCAGGGCATGCAGACG
CACCGGGCTAGGTGTCCCTGCCCCGGGCTCCTCCAGCTGTCTGCTCGGCATACCTAAGGA
AAAGCGTGTCTCGGTTACACAGCTTACAGGCTGCCTCAGTCCTGAAATCCTCGCTCCTG
AAATCCTCGCTTACAGAGGAGAACTTTTGCTCCAGGGTCCCAAGCCCATTAAAGTGTCA
GAACTAAGACCAAAACAGATGACTCCAGGTCTAAGCTGCTGTGGACCTCTGAGTCCCTCA
GCCACGCCTTCTCACCATCTCACCCGAGCCACTGCAGGAAGGATCCAGCAGGACATAGTG
GACCTCACGATAGCGCGGATCTAAGGGGGAGACCGCCAGGAAGTCCTCCTCAGCCAGCTC
ACAGCAGGAGACGCCAGCCCAGGCCAGCAGCGTGGCCATGGATGCCAGCCGCCTGGCATC
CAGGTCAAAGGCAAAGATCTTCTAGGGCAGAGGGCAGAGCAGGGGTGAGCTGAGCATGC
ATGGAGCAGCTAAGGGCCTGTACAGCTGACACAGACAACCAGAACATGCAGGTAAAGCC
AGGACACACAATATTGAAACAGCCTATATTTAAAGGGCCAGGGTCAAGAGGTAACTGGCC
TGGGGTCTCTGCCCAAGGGCTAAGGGATCCACATCTCACACCTGCAGTGGGGAAAGCTT
AGCTTGGGGCAAATACCGTGAACCTTTTGGTGCAGCAGGAAAGAGTTAAGCGAAAGTCA
TCCTTTTCAGCCTTCATTACCCACTGAAAGGCACAAAATCAAACCCCATGTCTCTCCTC
CTCCTGTGGCACTCACCTTTGGTCTTTCAGAAGAGCAGCCAAGTGACTGGTCTTTATTGC
CTGGGGTGGCACAGGCATCCATGACATGGGAGCCTGGCGGGGGTCCAGCAGCATGGCTGG
GAGACAGCTGGCCTGGCAGGCAGAACACAGGGGCCGGGTAAACAGAGACCCAGGCTAGG
CCCTTCCCCTGCTACACATTCTTCCCTTTCTATTCTCTTGCTACCTGTCTCTGCAG
AATGAGGTGTCCGGCCCGGTACAGTGGGTGTTTATGCAGATCTGTCTGGGCGGGAAACAC
CAGCAGCTCCGGCATCAAGGGGTCCAGGAGAAAATGCTTCCCCTTGAGGGCTCGTAAGTC
ATCGAGGCTGCCAGGGAAGAACCATTCATTTCATCATTTTCTGAATTTCTCCCTGCCAGGC
CCTATTTCAACGGTCCATTTCATGCAACAAATGTTACACAGCTATGGAGAAATCAACAGG
GTGATAAGGGAATCCGGGATCCGCAGTTGAGGGAATGGGTGTCAAGCAGACTTATGGG
TCAGGAGCCCCCTCTACTGTTTACCAGCAGTGGGAGCCTGGGCAAGTGATTCAATCTCAA
GCCCCACTGGCATCTCTGTAAAATAGTAGGTGTGAGGATTCAATGAGCCAATATATCCAA
GATACTTACGTGCCACAATTTAATAAATGTTAGCTATTCTGTTGAAGCATAACCTTGGA
GAAAGGTACTTTACAGGGGGGTGAGGAGTGGGGAAGTGAGAGCTGAGCTCATTCTTGAT
GGATGAGGAGTTAGTCATGTGAGGCGCTTAGGTTAAACTACATTCACTATAACTCAGTA
AAGCAGTCCCGCCCACTCTCCGACCCATGCAGAAATAGGCCTAGGGAGTCACATGTCTCA
GTTCAGAAATCTATCGAAGTGGCAGAGCTGGAATTCAAACACAAGCAGCCGTTCTCTGCT
ATTCCACCCTGGTGTCCAAGCAACATGGTAGGGCAGAAGGAAGAGGATCTTACAAAGAGT
AAGGGAAAGGGAGAGGGGCAGAGGCTGCTTCTCAGAGCCACCAAAGGACAAAATAAGACA
GGTGTGAGCCAGTGGAGGAGGCACGGGGCAGAGACCAGCCACTGTTGCTGGCACGCTGG
TGCA CGTAGCACTGTGGCAGATGGACCTGGAGAGGAAGCAGGAGGGACAGCACAATGGAG
CCAAGAAAGGACTTAGCATGGCCGGGCGCGGTGGTTCATGCTGTAAATCCAGCATTTTG
GGAGGCCAAGGTGGGCAGATCACTGAGGTGAGGAGTTGAGACCAGCCTGGCCAACATG
GAGAAATCCCCTCTCTACTAAAAATACAAAATTAGCCAGGCATGGTGTGCTGCATGCCTGCA
ATCCTGTAGGGAAAAGAAAGAGAGATCAGACTGTTACTGTGTCTGTGTAGAAAGGGAAGA
CATAAGAAATTCCATTTTGACCTGTACCTTGAAACAATTGGTTGGCTGAGATGCTGTTAAT
TTGTGACTTTGCCCAAAATTTGAGCTCACAAAACATGTGTTGTATGGAATCAAGGTTTA

FIGURE 1 (CONT'D)

AAGGATCTAGGGCTGTGCAGGACATGCCTTGTTAATAAAACGTTTACAAGC

Gene 795. >OTTHUMT00007006868 cDNA sequence

GTGGCGGCGGCGGCGGACCTTGGGGTCTGGACGCAACGGCGGCGGGAGCATGAACGCCC
CTCCAGCCTTCGAGTCGTTCTTGCTCTTCGAGGGCGAGAAGAAGATCACCATTAAACAAGG
ACACCAAGGTACCCAATGCCTGTTTATTACCATCAACAAAGAAGACCACACACTGGGAA
ACATCATTAAATCACAACCTCTAAAGACCCGCAAGTGCTATTTGCTGGCTACAAAGTCC
CCCACCCCTTGAGACACAAGATCATCATCCGAGTGACAGACCACGCCGACTACAGCCCCC
AGGAAGCCTTTACCAACGCCATCACCGACCTCATCAGTGAGCTGTCCCTGCTGGAGGAGC
GCTTTCGGGTGGCCATAAAAGACAAGCAGGAAGGAATTGAGTAGGGGCCAGAGGGGGCTC
TGCTCGGCCTGTGAGCCCCGTTCTACCTGTGCCTGACCCTCCGCTCCAGGTACCACACC
GAGGAGAGCGGCCGGTCCAGCCATGGCCCCGCTTGTGGCCACCCCTCACCTGACACCG
ACGTGTCCTGTACATAGATTAGGTTTTATATTCTAATAAAGTATAGCGGGAGAGA

Gene 796. >OTTHUMT00007007831 cDNA sequence

ATGTCTTCCCCACTGCAGAGAGCTGTGGGAGATACCAAGAGGGCCTTGTCTGCATCTTCT
AGTTCTCTGCCAGTCTACCTTCGATGACAGGGACTCAAACCATCCCTCAGAGGGTAAG
AATACTGACTCTTTATTAGCTGATGAAGGCAGTGACTTTGAAGATAGCTTCAATCGCAAT
GTGAAGAAGAAAGCAGCAAAACGACCACCGAAAACAACACCGGTGAGTGGCAAACAACGA
AAGAAAGGGTCCCGAGTGGTACATCGTCATAGCCGAAACAGTCAGAGCCACCAGCCAAT
GATCTTTTCAATGCGGTGAAAGCTGCCAAAAGTGACATGCAG

Gene 797. >OTTHUMT00007007834 cDNA sequence

CCGCCCCCTCCCGTCCCCCGCCGCCCGCCCTCAGCGCCGCCGACACCAAGCCCGGC
ACTACGGGCAGCTGCGCAGGGAGCGGTGGTCCGGGCGGCCTCACATCGGCGGCGCCTGCC
AGCGTGGACAAGAAGGTATCGCAGTGAAAGTTTTGGGAACAGTAAATGGTTCAATGTA
AGGAACGGATATGGTTTTATCAACAGGAATGACACCAAGGAAGATGTATTTGTACACCAG
ACTGCCATAAAGAATAACCCAGGAAGTACCTTCGCAGTGTAGGAGATGAAGAGACTGTG
GAGTTTGATGTTGTTGAAGGAGAAGAGGGTGCAGGAGGAGCAAAATGTTACAGATCCTGGT
GGTGTTCGAGTTCAAGGCGGTAAATATGCAGCAGATCGTAACCATTATAGACGCTATCCA
CGTCATAGGGGTCTCCACGCAATTACAGCAAAATTACCAGAACAGTGAGAGTGGGGAA
AAGACCGAGGGATCGGAGAATGCTCCCGAAGGCCAGGCCCAACAATGCCGGCCCTACCGC
AGGCAAAGGTTCCACCTTACTACATGCGGAGACCCTATGGGTGTGACCAACAGTATTCC
AGCCCTCCTGTGCAGGGAGAAGTGATGGAGGGTGCTGACAACCAGGGTGAGGAGAACAA
GGTAGACCAGTGAGGCAGAATATGTATCGGGGATATAGACCACGATTCCGAGGGGCCCT
CCTTGCCAAAGACAGCCTAGAGAGTACGGCAATGAAGAAGATAAAATCAAGGAGATGAGA
CCCAGGGTCAGCAGCCACCTCAACGTCCGTACCGCAGCAACTTCAATTACCAACGCAGAT
GCCAGAAAACCTAAATCACAAGATGGCAAAGAGACAAAATCAGCCAATCCACCAGCTG
AGAATTCTGTCTGCTCCCGAGGCTGAGCAGGGCGGGGCTGAG

Gene 798. >OTTHUMT00007007835 cDNA sequence

CTAGATCTAAAGCTTAAGGACTATGGAGTGGATCTCATTGAAGTTTCAGACAATGGATGT
GGGGTAGAAGAAGAAAACCTTTGAAGGCTTAACTCTGAAACATCACACATGTAAGATTCAA
GAGTTTGCCGACCTAACTGAGGTTGAAACTTTCGGCTTTCAGGGGGAAGCTCTGAGCTCA
CTGTGTGCACTGAGCGATGTACCATTTCTACCTGCCACGCATCGGCGAAGGTTGGGACT
CGACTGGTGTGTTGATCACTATGGGAAAATCATCCAGAAAACCCCTACCCCCACCCAGA
GGGATGACAGTCAGCGTGAAGCAGTTATTTTCTACACTACCTGTGCGCCATAAGGAATTT
CAAAGGAATATTAAGAAGGTACAACGTGCCTGCTTCCCCTTCGCCTTCTGCGGTGATTGT
CAGTTTCCTGAGGCCTCCCCAGCCACGCTTCTGTACAGCCTGCAGAACTGACTCCTAGA
AGGACCCACCCCCCTCCCCCACCCTGCTCCTAGGAGGACAACGTGATCACTGTATTTC
AGCTCCATCAAGAATGGTCCAGGTTCTTCTAGA

Gene 799. >OTTHUMT00007007837 cDNA sequence

GCGGAGGGGAGGTCTGGTGCTTGATGGTCGAGGCCATCTCCTGGGCGCCTGGCGGCC
ATCGTGGCTAAGTAGGTACTGCTGGGCCGGAAGGTGGAGGTCGTACGCTGTGAGGGCATC
ATCATTTCTGGCCATTTCTACAGATACAAGTTGAAGTACCTGGTCTTCTCCGCAAGCAG
ATGAACACCAACCCTTCCCGAGGCCCTACCACTTCCGGGCCCTCTAGCCGCACCTTCCGG
CTGACCTCGAGGCATGTTGCCCCACAAGACAAAGCAAGGCCGGGCCGCCCTGGAGCGCCT
CAAGGTGTTTGACGGCATCCACCGCCCTATGACATGAAAAAGCGGATGGTGGTTCTGCTG

FIGURE 1 (CONT'D)

TGCCCTCAAGGTCATGCATCTGAAGCCTACAAGAACTTTGCCTACGTGGGGCGCCTGGC
TCACGAGGTTTGCTGTAAGTACCTGGCAGTGGCATCTACCTGAAGGAGAAGAGGAAGGA
GAAAGCCAAGATCCACTATCGGAAGAAGAAACAGCTCATGAGGCTATGGAAACCGGGTGA
AAAGAACGTGGAGAAGAAACTGACAAATACACAGAAGCTCTCAAGACCCATGGACTCCT
GATC

Gene 800. >OTTHUMT00007007838 cDNA sequence

GTGTGTCTCGGCGGCCTGGCGCCGGCCGTGCTGTACGGTGAGCCCCAGGGAGGCGGAT
CTGGGCCCCGAGAAGGACCCCCGCCTGGATTTGCCCCGTAGGCCCGGCCCGGGCCCCCTCG
GGAGCAGAACAGCTTTGGTGAGGTGGA CAGGAGGTGACCTCGCGAGCAGACGCGCGCGCC
AGCGACAGCAGCCCCCGCCCGGCCTCTCGGGAGCCGTGGGGCAGAGGCTGCGGAGCCCCAG
GAGGGTCTATCAGCCACAGTCTCTGCAAGTTTCCAAGAGCAGCAGAAAATGAACACATTG
CAGGGGCCAGTGTCAATTCAAAGATGTGGCTGTGGATTTCAACCAGGAGGAGTGGCAGCAA
CTGGACCCTGATGAGAAGATAGCATACGGGGATGTGATGTTGGAGAACTACAGCCATCTA
GTTTCTGTGGGGTATGATTATCACCAGCCAAACATCATCATGGAGTGGAGGTGAAGGAA
GTGGAGCAGGGAGAGGAGCCGTGGATAATGGAAGGTGAATTTCCATGTCAACATAGTCCA
GGACCTGCCAAGGCAAGGGGCCCTATT

Gene 801. >OTTHUMT00007006892 cDNA sequence

ATGGCCTGGGCCTGGGCTCGTGACCTTCCCTGGAGGCCATGGTGGTGGTGGTGGTGGTGG
CAGGTGTGTTCCCGTCTCCACCCCTCAGGGAAGAAGCAAGTTCCAGGAGCCTGGACTTTT
GCCCTGCGCACTCTCTGTGTGATGAGGAGACAGCCATGAGGACAGACACTTGAAGTAC
CCTATAACTGGCACCATGCAAGAGAGACAGGCAGGAGGAGACTGTGGGAGCTCAGAGGAG
ACACTTGTGCTGGCCTGGATCAGGGAGAAAGGAGGGGTGTGCGGAGGCTTCTTGAAGAA
GTGGCTTCTGGATTAATTATTGAACCTGAAAGTCACTGCGCGCTCTTCTCGCCCGAAGCC
GCAGGTGGCTGCGATGGGACGGAAGCCATGAATGGTGC CGGCCCTGGCCCCGCGCAGCC
GCCCCGGTCCCACTCCCGGTCCCGGTCCCGGACTGGCGGCAGTTCTGCGAGCTGCATGCG
CAGGCGGCCCGCGTGGACTTTGCGCACAAGTTCTGCCGTTTCTGCGGGACAACCCAGCT
TACGACACGCCCCGACGCGCGCCCTCCTTCTCCCGCCACTTCCGCCGCAACTTCTTGGAC
GTCTTCCGCGAGGAGGTGCGCCCGTGTGGTGGCTGGGCGGACGACTCGGGGCGCGGCC
GTGAGCGCAGAGGCCATGGAGCCGGAGCTCGCGGACACCTCTGCACTCAAGGCGGCGCCC
TACGGCCACTCGCGGAGCTCGGAGGACGTGTCCACGCACGCGGCCACCAAGGCCCGCGTT
CGCAAGGGCTTCTCGCTGCGCAACATGAGCCTGTGCGTGGTGGACGGCGTGC CGGACATG
TGGCACCGGCGCGCCTCGCCGAGCCCGACGCGGCAGCTGCCCCGCGCACCGCCGAGCCC
CGCGACAAGTGGACGCGGCGCCTGAGGCTGTGCGGACGCTGGCTGCCAAGGTGGAGCTG
GTGGACATTCAACGCGAGGGGGCGCTGCGCTTCATGGTGGCCGACGACGCGGCGCGGGC
TCCGGGGGCTCGGCTCAGTGGCAGAAGTGCCGCTGCTCCTGCGCAGGGCTGTGGCCGAG
GAACGCTTCCGCCTGGAGTTCTTCTGTCGCGCCCAAAGGGCTGGCCATCAGGTCCCTGGCA
GTAGTGTACGTCTTCTCAAGGTGGCCCCCTGCTTTGGAAAGTGGGAATAGCTGTAAC
AATAGTGCCCAACCTCTGAGAGCCACAGTGTGTCCAGACCCAGCCTGGTGGGCATCTG
CACAGACACACTGTATCCTCTGGGTACCCACCCAGCGAGTGTCTGCTGCCCTCGGAG
AAGGGGAAGGAGCAGCTGGTGC CGCCCCCGCCCACTCCACCGCTTAGTCCAGCAGAG
CCCACTAATTTTGTGCTGGCAGAGGGCAGCGTTCTGCGAGGGTCACTGGGCCCTTCCCC
TCCTTTGTGTGATGCAAATTTGAGGTGCCAGCCCTGGCCTCCAGGCCCAAGGTGAGCATC
CCACTGTGAGCCATCATTGAGGTCCGACCAACCATGCCCCCTGGAAATGCCAGAGAAGGAT
AACACATTTCGTCTCAAGGTAGAGAATGGAGCCGAATACATCTTGGAGACCATCGACTCT
CTGCAGAAGCACTCGTGGGTAGCTGACATCCAGGGCTGCGTGGACCCCCCTCTGTGAGGCC
TGCTCTATGGGGCCAGGGCCTGGGGACCTGGAAGGAAGTTGGACCAGGTCTTGTCTTAC
CCCAAGAGAGCCTCAGAGCACTGGGAGTTGGGCAGAGATGGCGAACAGGGTGCAGAGACG
GATCCCAGGCTGAAACCGAGCTGGAGCTATCCGACTACCCATGGTTCCACGGGACACTG
TCCCGGGTCAAGGTGCTCAACTGGTTCTGGCAGGGGGGCCCGGAACACGGCCTCTTC
GTGATCCGCCAAAGTGAGACTCGGCCTGGGGAGTACGTGCTGACCTTCAACTTCCAGGGC
AAGGCCAAGGCATGGCCCCACCGTGCAGGAGGTAGCACCTCCACCAGGGACATTTCTTG
GCAAGCAGCCACCTTACAGTTCTCCGACAACAGCACCTGCGCCTGTCCCTGAACGGC
CACGGCCAGTGTACGTACAGCATCTGTGGTTCCAGTCTGTGCTTGACATGCTCCGCCAC
TTCCACACACACCCCATCCCACTGGAGTCAGGGGGCTCGGCCGACATCACCTTCGAGC

FIGURE 1 (CONT'D)

TATGTGCGGGCCAGGACCCCCACCATGTGGCCAGCCAGGTCCCCACTCACGCCCTGC
CGTCGCCTTGTTGCAGAGCCGGGCCCCACGCCCCCTGCCGCGCCCGCGTCCCCGGCCTGC
TGGAGCGACTCGCCCGGCCAGCACTACTTCTCCAGCCTCGCCGCGGCCCTGCCCGCCT
GCCTCGCCCTCCGACGCCCGCGCGCCTCCTCGTCTTCCGCTCGTCGTCCTCTGCCGCG
TCGGGGCCCGCCCCCGCGCCCCGTGAGGGCCAGCTCAGCGCGCGGAGCCGAGCAAC
AGCGCCGAGCGCCTGCTGGAGGCCGTGGCCGCCACCGCCGCGAGGAGCCCCGGAGGCC
GCGCCCGCGCGCGCGCGCCGTGGAGAACCAGTACTCCTTCTACTAG

Gene 802. >OTTHUMT00007006894 cDNA sequence

CGGCTGGAGCGCATCTGGTCCTCCGCGCGGAAAGCGCTGCTTTTGCTGGCCGCCCTAGC
CGCTGGCTCATCAAGTGGCCTTCGCCGCTCTCTTGGCTCCCAACCAGAGCGCTGGCCAC
CTCGCCGCCAGCTCACGCCGCGCCCGCGCTCCCAGGCTCCGGGTTTTCTTAAATGTTTT
CTTGGAGCCTTAAAGATGGAGATGACAGAAATGACTGGTGTGTCGCTGAAACGTGGGGCA
CTGGTTGTGCAAGATAATGACAGTGGAGTCCCAGTTGAAGAGACAAAAAACAGAAGCTG
TCGGAATGCAGTCTAACAAAGGTCAAGATGGGCTACAGAATGACTTTCTGTCCATCAGT
GAAGACGTGCCTCGGCCTCTGACACTGTGACTGTTGGAAAGGTGGAAAGAATTCTGAG
GCTCAGTTGGAAGATGAGGAAGAAGAGGAGGAAGATGGACTTTTCAAGAGAGTGCAGGAG
GAGGAATCAGAGAGTTTTGACAGACATGATGAAGCATGGACTCACTGAGGCTGACGTAGGC
ATCACCAAGTTTTGTGAGTTCTCATCAAGGGTTCTCGGAATCTTAAAGAAAGATACTCC
GACTTCGTTGTTTATGAAATAGGAAAAGATGGACGGATCAGCCATTTGAATGACTTGTCC
ATTCAGTGGATGAGGAGGACCTTTCAGAAGACATATTTACAGTTTTGACAGCTGAAGAA
AAGCAGCGATTGGAAGAGCTCCAGCTGTTCAAAAATAAGGAAACAGTGTGTCATTGAG
GTTATCGAGGACACCAAAGAGAAAAGAACCATCATCCATCAGGCTATCAAATCTCTGTTT
CCAGGATTAGAGACAAAAACAGAGGATAGGGAGGGGAAGAAATACATTGTAGCCTACCAC
GCAGCTGGGAAAAAGGCTTTGGCAAATCCAAGAAAACATTCTTGGCCAAAATCTAGGGGA
AGTTACTGCCACTTCGTACTATATAAGGAAAAACAAAGACACCATGGATGCTATTAATGTA
CTCTCCAAATACTTAAGAGTCAAGCCAAATATATTCTCCTACATGGGAACCAAAGATAAA
AGGGCTATAACAGTTCAAGAAATTGCTGTTCTCAAAATAACTGCACAAAGACTTGCCAC
CTGAATAAGTGCTTGATGAACTTTAAGCTAGGGAATTTCAAGCTATCAAAAAACCCACTG
AAATTGGGAGAGCTTCAAGGAAACCACTTCACTGTTGTTCTCAGAAATATAACAGGAACT
GATGACCAAGTACAGCAAGCTATGAACTCTCTCAAGGAGATTGGATTTATTAATACTAT
GGAATGCAAAGATTTGGAACCAAGCTGTCCCTACGTATCAGGTTGGAAGAGCTATACTA
CAAAATTCCTGGACAGAAGTCAAGGATTTAATATTGAAACCCGCTCTGGAGCTGAAAAG
GGCTACTTGGTTAAATGCAGAGAAGAATGGGCAAAGACCAAAGACCCAACTGCTGCCCTC
AGAAAACCTGTCAAAAGGTGTGTGGAAGGGCAGCTGCTTCGAGGACTTTCAAAATAT
GGAATGAAGAATATAGTCTCTGCATTTGGCATAATACCCAGAAATAATCGCTTAATGTAT
ATTCATAGCTACCAAAGCTATGTGTGGAATAACATGGTAAGCAAGAGGATAGAAGACTAT
GGACTAAAACCTGTTCCAGGGGACCTCGTTCTCAAAGGAGCCACAGCCACCTATATTGAG
GAAGATGATGTTAATAATTACTCTATCCATGATGTGGTAATGCCCTTGCTGTTTTGAT
GTTATCTACCCAAAGCATAAATTTCAAGAAGCCTACAGGGAAATGCTCAAGCTGACAAT
CTTGATATTGACAAATGAGACACAAAATTCGAGATTATTCCTTGTGAGGGGCTACCGA
AAGATCATTATTCTGTCCTCAGAATGTTAGCTGGGAAGTCGTTGCATATGATGATCCCAA
ATTCCACTTTTCAAACAGATGTGGACAACCTAGAAGGGAAGACACCACAGTTTTTTGCT
TCTGAAGGCAAATACAGGGCTCTGAAAATGGATTTTTCTCTACCCCTTTCTACTTACGCC
ACCATGGCCATTGAGAAAGTGTAAAAATGGATACCAGTATCAAGAACCAGACGCAGCTG
AATACAACTGGCTTCGCTGAGCAGTACCTTGTCCACAGATTAGAAAACGTACACAAGTG
TTTGCTTCCTGGCTCCCTGTGCATTTTTGTCTTAGTTTCAAGTCTATATATGGATTTCAA
TCTTTGTAATAAAAATTATTTGTATTTTTAAG

Gene 803. >OTTHUMT00007007841 cDNA sequence

GCCAAGATTGTGCCATTGCACTCCAGCTTGGGTGACAGAGCAAGACTCTGTCTCAAAAA
AAAAAAAAAAAAACCGGAAAAAGCAACAAGAAGGAAGAGCAATGGCGACACTGGATCGC
AAAGTGGCCAGTCCGGAGGCGTTTCTGGGCAAACCTGGTCCTCTGGATCGACGCCGCC
AAATTACACTGCTCCGACAATGTAGATTTAGAAGAGGCTGGAAAAGAGGGTGGAAAAGC
AGGGAGGTTATGAGGCTTAATAAAGAAGGTAAGTGGAGCTACTGGCATT

Gene 804. >OTTHUMT00007007842 cDNA sequence

FIGURE 1 (CONT'D)

ATGTCTTCCCCACTGCAGAGAGCTGCGGGAGGTACCAAGAGGGCCTTGTCTGCATCTTCT
AGTTCCTCTGCCAGTCTACCCTTCGATGACAGGGACTCAAACCATCCCTCAGAGGGTAAG
AATACTGACTCTTTATTAGCTGATGAAGGCAATGACTTTGAAGACAGCTTGAATCACAGT
GTGAAGAAGAAAGCAGCAAAACGACCACAAAAGCAACACCGGTGAATGGCAAACATCCA
GAGAAAGGGTCCCGAGTGGTACATCGTCATAGCCGGAACAGTCAGAGCCACCAGCCAAT
GATCTTTTCAATGCTGTGAAAGCTGCCAAAAGTGACATGCAG

Gene 805. >OTTHUMT00007006130 cDNA sequence

ATTAAGGAGCGGAGGCTTTTGGAGCTGCTAAAATGCCGGATTACCTCGGTGCCGATCAGC
GGAAGACCAAAGAGGATGAGAAGGACGACAAGCCCATCCGAGCTCTGGATGAGGGGGATA
TTGCCTTGTTGAAAACCTTATGGTCAGAGCACTTACTCTAGGCAGATCAAGCAAGTTGAAG
ATGACATTACAGCAACTTCTCAAGAAAATTAATGAGCTCACTGGTATTAAAGAATCTGACA
CTGGCCTGGCCCCACCAGCACTCTGGGATTTGGCTGCAGATAAGCAGACACTCCAGAGTG
AACAGCCTTTACAGGTTGCCAGGTGTACAAAGATAATCAATGCTGATTCTGGAGGACCCAA
AATACATTATCAACGTAAAGCAGTTTGCCAAGTTTGTGGTGGACCTTAGTGATCAGGTGG
CACCTACTGACATTGAAGAAGGGATGAGAGTGGGCGTGGATAGAAATAAATATCAAATTC
ACATTCCATTGCCTCCTAAGATTGACCCAACAGTTACCATGATGCAGGTGGAAGAGAAAC
CTGATGTCACATACAGTGATGTTGGTGGCTGTAAGGAACAGATTGAGAACTGCGAGAAG
TAGTTGAAACCCATTACTTTCATCCAGAGAGGTTTGTGAACCTTGGCATTGAGCCTCCCA
AGGGCGTGCTGCTCTTTGGTCCACCCGGTACAGGCAAGACA CTCTGTGCGCGGGCAGTTG
CTAATCGGACTGATGCGTGCTTCATTGAGTTATTGGATCTGAGCTTGTACAGAAATACG
TCGGTGAGGGGGCTCGAATGGTTCTGTGAACCTTTGAAATGGCCAGAACAAAAAAGCCT
GCCTTATCTTCTTTGATGAAATTGATGCTATTGGAGGGGCTCGTTTTGATGATGGTGCTG
GAGGTGACAATGAAGTGACAGAGAACAAATGTTGGAACGATCAATCAGCTTGATGGTTTTG
ATCCTAGAGGCAATATTAAAGTGCTGATGGCCACTAACAGACCTGATACTTTGGATCCAG
CACTGATGAGGCCAGGGAGATTGGATAGAAAAATTGAATTTAGCTTGCCCGATCTAGAGG
GTCGGACCCACATATTTAAGATTACGCTCGTTCAATGAGTGTTGAAAGAGATATCAGAT
TTGAACTGTTAGCACGACTGTGTCCAAATAGCACTGGTGCTGAGATTAGAAGCGTCTGCA
CAGAGGCTGGTATGTTTGCCATCAGAGCACGGCGAAAAATTGCTACCGAGAAGGATTTCT
TGGAAGCTGTAAATAAGGTCATTAAGTCTTATGCCAAATTCAGTGCTACTCCTCGTTACA
TGACATACAACTGAACCCTGAAGGCTTTCAAGTGAAAACTTTAAATTGGAATCCTAACCT
TATATAGACTTGTTAATAACCAATTCATAAACAAATAAATGGCTTCAAATTTGTATGCTT
TTTTCCATATCTCTTCTGTAAATATAATAAAGGTGATTTCTAATGTTA

Gene 806. >OTTHUMT00007007872 cDNA sequence

GCAAAGAGCTTGTGGAGTCTGGCAGGAAGAGCAACGAAGGTGAAGGTGAAGACATTGAGC
TGGAATCCGGACAACATATGTCCGCAAAACCAAGTTGGACTTACAGATTATTCCAAGAAAC
TGTGATCCTACCTTACATCCTTTTGGAGTCTGCAAGAATGTGTAAGAGTTTTAAATGCT
ACCAAACCTGGAAGGAGTATTTGCAAAACCATGCCTGGCTTGGCTGGATGGTCACGAGATG
GAGTGAGTTGCTTGGCAAAGCATCCAAAGATCCTGGCTACTCTCCTTTCTAGGGGATGTG
ATGGAGCAGTTAGAATTTGGAACTGACTCAGCTGAAATGTATCCGTATAATACAAGCAC
ATGAAGGTTTTGTACAGGGAATACGTGCTCACTTTTGTGGGACTTCTTTTTTCACTGTTG
GTGATGACAAAACCTGTGAAGCAGTGGAAAATGGATGGGCCAGGCTACGGAGAGGAGGAAG
GGCCATTACATACAATATTAGGAAAGACAGTGTATACTGGGATTGATCATCACTGGAAAG
AAGCTGTTTTTGGCCACATGTGGACAGCAAGTAGACATTTGGGATGAACAAATAACTAATC
CTATAAGTTCAATGACCTGGAGATTTGACAGTATAAGTAGTGGTAAATTTAATGCAATTG
AGACATTTATCTTGGGAAGTTGTGCTTCCGACAGGACTACAGTACTGTATGATATGAGGC
AAGCTACTCCTCTGAAAAAGGTTATCTTAGATATGAGAACAAATACAGTCTGTTGAAACC
CTATGGAAGCTTTTCAATTTTATGGCAGCAAATGATGATTATACTTATTTACTTTTGATA
TGCGTGCACTCATGTAATGGTCCATATGGATCATGTATCTGCAGTGCTTGATGTGGATTA
CTCTCCCACTGGGAAAGAGTTTGTGTCTGCTAGTTTCAATAAATCTATTTGAATCTTTCC
TGTAAGATAAAAGTCAAAGCAGGGAGGTATATCACACAAAGTGAAAGCAACATGTTATGTG
TGTAATAATGGACTTCTGACAGCAAGTATATTATGTATGGATCTGATGAAATGAACAGTTA
CCTATGGAAGCTAATGCTTCTGCAAAATTTGGTATGCTTACATCACAAGAAAAAGCAGC
CAAGTATTATAACCAGAACTGAAGGAGAAATTTAGCGTCATCTCATATACAACCGAT
AGCTCGTCATTGACATCTACCAAATCTGTCTACAGCCCAATTCAGGAACAGTGCATCAT

FIGURE 1 (CONT'D)

GAAAGAAGCTTGTGATGAGAGGAAGTGAATCACGTTAAACACAGCAAGCCTGGATCTGT
GCCAATTGTGTGAGAGAAGAAGAAACACATAGTGGCAGTTGTAAAA

Gene 807. >OTTHUMT00007007874 cDNA sequence

GCCTTTGGTTTGCATACAGAGTCTGCCCTAAATTCTCCAAGAATTGGAAGTCCACTGCGT
CCAAAGAAATATACTGAAACAAATAATCTTCAGGCAATGCCTAGAGATGTGTCTACCAGT
TTCTCTGACTTGGACTAGAGCCTTGGATAAAAAGTAAAAAAGAGACATTGTCCATTTCCAG
TGAAATTGAAGGACTCAACACCAGTATCTGATGATGTATCAAGTCAACTATATCCTCCAG
AAGAACAGGAAGAAGCTTGATTTTTTATTTGATGAACAGACGCAACAAATAGAAGAAAAAG
AAACACATTTACTGATTGGTCTCGTAATGATTGAGATTATGAAATTGATGAGCTGAATTT
CAACAAGATGTTGATT

Gene 808. >OTTHUMT00007007875 cDNA sequence

GAGGGAAGGAGAGGTTGGAATGAGGGAAGCAGAGGTTGGAATGATGGAAGCAGAGGTTGG
AATGATGGAAGCAGAGGCTGGAATGAGGGAAGCAGAGGCTGGAATGAGGGAAGCAGAGAT
TGGAATGATGGAAGCAGAGGTTGGAATGAGGGAAGAAGAGGTTGGAATGATGGAAGCAGA
GGTTGGAATGATGGAAGCAGAGGTTGGAATGATGGAAGCAGAGGTTGGAATGATGGAAGC
GGAAGTTGGACTGATGGAAGCAGAGGTTGTAATGATGGAAGCAGAGGTTGGACTGATGGA
AGCAGAGGTTGGAATGAGGGAAGCAGAGGTTGGAATGATAGAAGCAGAGGTTGGAATGAG
GTAAGGAGAGGTTGGAATGAGGGAAGGAGAGGTTGGAATTGTGGAAGCAGAGGTTGGAAT
GGTAGAAGCAGAGGTTGGAATGGTGGAGGCAGAGGTTGGAATGATGGAGGCAGAGGTTGG
AATGATGGAGGCAGAGGTTGGAATGATGGAGGCAGATGTTGG

Gene 809. >OTTHUMT00007007876 cDNA sequence

GAGGAGAAGGTGGTGTACTCGCGGTGCGAACTGTCGCTGGCTGACAGCACCAAGGCGCTG
GGCGACGCCTTCAAGCTCTTCATGCCCCGACGACGAGTTTCATGAGCTCGGACGCGGAG
CTCTGGAGCTTCTCTGACGCTCAAGCACCAGTTCTCCCCGACATCCTGCGCAGCAAG
GACGTCTACGGCTACTCCTCCTGCGGGGCCCTGGTACCCGACCCCCCGGGCCCCCTACA
GCCCCGCGGCCAGGCGCGCCGGCCGGTTCCGCGCGCAGCGGCC

Gene 810. >OTTHUMT00007006155 cDNA sequence

CGCGCGGCCCTGTCTCCGGCCCCGAGATGAATCCTGCGGCAGAAAGCCGAGTTCAACATC
CTCCTGGCCACCGACTCCTACAAGGTTACTCACTATAAACAATATCCACCCAACACAAGC
AAAGTTTATTCTACTTTGAATGCCGTGAAAAGAAGACAGAAAACCTCAAATTAAGGAAG
GTGAAATATGAGGAAACAGTATTTTATGGGTTGCAGTACATTCTTAATAAGTACTTAAAA
GGTAAAGTAGTAACCAAAGAGAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTTC
CAAGATGATGTCTTTAATGAAAAGGGATGGAACCTACATTCTTGAGAAGTATGATGGGCAT
CTTCCAATAGAAATAAAAGCTGTTTCTGAGGGCTTTGTCTATTCCCAGAGGAAATGTTCTC
TTCACGGTGGAAAACACAGATCCAGAGTGTTACTGGCTTACAAATTGGATTGAGACTATT
CTTGTTTCAGTCTGGTATCCAAATCACAGTGGCCACAAATTCTAGAGAGCAGAAGAAAATA
TTGGCCAAATATTTGTTAGAAACTTCTGGTAACCTTAGATGGTCTGGAATACAAGTTACAT
GATTTTGGCTACAGAGGAGTCTCTTCCCAAGAGACTGCTGGCATAGGAGCATCTGCTCAC
TTGGTTAACTTCAAAGGAAACAGATACAGTAGCAGGACTTGCTCTAATTAATAAATATTAT
GGAACGAAAGATCCTGTTCCAGGCTATTCTGTTCCAGCAGCAGAACACAGTACCATAACA
GCTTGGGGGAAAGACCATGAAAAGATGCTTTTGAACATATTGTAACAAGTTTTTCATCA
GTGCCTGTATCTGTGGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAATATGG
GGTGAAGATCTAAGACATTTAATAGTATCAAGAAGTACACAGGCACCACTAATAATCAGA
CCTGATTCTGGAAACCCTCTTGACACTGTGTTAAAGGTTTTGGAGATTTTAGGTAAGAAG
TTTCTGTACTGAGAACTCAAAGGGTTACAAGTTGCTGCCACCTTATCTTAGAGTTATT
CAAGGGGATGGAGTAGATATTAATACCTTACAAGAGATTGTAGAAGGCATGAAACAAAAA
ATGTGGAGTATTGAAAATATTGCCTTCGGTTCTGGTGGAGGTTTGCTACAGAAGTTGACA
AGAGATCTCTTGAATTGTTCTTCAAGTGTAGCTATGTTGTAACCTAATGGCCTTGGGATT
AACGTCTTCAAGGACCCAGTTGCTGATCCCAACAAAAGGTCCAAAAGGGCCGATTATCT
TTACATAGGACGCCAGCAGGGAATTTTGTTACACTGGAGGAAGGAAAAGGAGACCTTGAG
GAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAATGGCAAGGTGACAAAAGCTAT
TAGGCTTTATGACTGGGTGTGTGTTGTGTGTATGTAATACATAATGTTTATTGTACAGAT
GTGTGGGGTTTGTGTTTATGATACATTACAGCCAAATTATTTGTTGGTTTATGGACATA

FIGURE 1 (CONT'D)

CTGCCCTTTTCAATTTTTTTCTTTTCCAGTGTTTAGGTGATCTCAAATTAGGAAATGCATT
TAACCATGTAAAAGATGAGTGCTAAAGTAAGCTTTTTAGGGCCCTTTGCCAATAGGTAGT
CATTCAATCTGGTATTGATCTTTTACAAATAACAGAACTGAGAACTTTTATATATAAC
TGATGATCACATAAAACAGATTTGCATAAAATTACCATGATTGCTTTATGTTTATATTTA
ACTTGATTTTTTGTACAAACAAGATTGTGTAAGATATATTTGAAGTTTCAGTGATTAAAC
AGTCTTTCCAACCTTTTATGATTTTTTATGAGCACAGACTTTCAAGAAAATACTTGAAAAT
AAATTACATTGCCTTTTGTCCATTAATCAGCAAATAAAACATGGCCTTAACAAAGTTGTT
TGTGTTATTGTACAATTTGAAAATTATGTGCGGACATACCCTATAGAATTACTAACCTTA
CTGCCCTTGTAGAATATGTATTAATCATTCTACATTAAAGAAAATAATGGTTCTTACTG
GAATGTCTAGGCACTGTACAGTTATTATATATCTTGGTTGTTGTATTGTACCAGTGAAAT
GCCAAATTTGAAAGGCCTGTACTGCAATTTTATATGTGAGAGATTGCCTGTGGCTCTAAT
ATGCACCTCAAGATTTTAAAGGAGATAATGTTTTTAGAGAGAATTTCTGCTTCCACTATAG
AATATATACATAAATGTAAAATACTTACAAAAGTGG

Gene 811. >OTTHUMT00007007104 cDNA sequence

ATGGAGGTTATGATCTATGTTGCCATCATGTTTCAATTTCCCAGGATAGAATCCTAAAAGAA
TTACTGGGTGAACAGGAAGTTTTGTGTGTATGTTACAGCCCGAAGTGTGCCTCTTGGGGAC
AAATCACATATTTCAGTGTTTTACATTCATAAAGGATATATATTTCTGAAGAAAGTTGTC
AATCACAGCAAGACCTTCACCACTTCTCTTGAGAATGTTGGGTACACATGACAAAGGGC
ATTACTTTTTCTCAACCTTTATTATGTGGCTGTTTACTTACCTGGTCATTTCTTCCACCTA
CTTAATGTTCAACATCCAGACCTGATCTGCCACAATCTCTTTCTGACAAATAATGAAATG
ATTGATATGCTACCTCATTGCCCTTTACAGTCATTGTGAGGGTCCCTGGTATTGGATTGT
TGTTCTGGAAAGCTCTATAGAGCACTGCTCAGCCAGTCGTCTTTATTACAGCTTCTGCAG
AACACTTGCTTAGACTGTGAGAAGATGGCTGCGTTGCACTGCGCTCTACTGCGGTCAA
GGTGCGCAGTTCTTGAAGGCCAGGAAATTCCTGGAATAACTCTTGTGACAGAAGACATT
GCATTGCCTCTTATGAAGGTGCTCAGCTTTAAGGGCTACTGGGAAAACTGAACTCCAAC
CTAGAATATGTTAAGTACGCCAAGCCACACTTCCACTATAACAAAGTGTGGTCAGGAGA
GAGTGGCACAACCTGATCTCTGAAGAGAAAAACAGGAAAAAGAAGGTCTGCGGCATACGTG
AGGAATATTCTTGATAATGCAGTAGCCAAGATTAACACCCCTCCTGCAGGAGGAAGACAG
CCACCAGCGGCTGCTCATGGGGCTGAGGACACTGCAATTTGGAGAAATAGTCGTGGCAGT
GCTGCTGAATTTGCAGTTTTTACATCATGACCAGGATTCTGGAAGCTACAAACAGTTTG
TTTTTACCTCTGCCTCCTGAAACTTTATACCCATTGAACAGCAATTACTTATCCCCTACT
CCCCGGTTCTTGGCAAGCACTGTTCTACCTTCTGTGTCTATGAGTTTGACTACTTTAGAT
ACTGCAGACTGCAAGGTGTATGGGAGCAGCAGTTGTGCCTGTTTTGCTCATTTTTATACT
CTTAGCCCCCTTGCCATTTCTACTCTGCACACCATCCTCGGGGTCCAGTGTCTCCCTTTG
CATAACCTGCTGCATTGCATTGACAGTGGAGTGTGCTTCTCACTGAAACAGCTGTCATA
AGGCTCATGAACTGGATAATACAGAGAAAAATGAAAACTGAAATTGAGTATCATTGTG
CGGCTTCCTCCGCTTATTGGGCAGAAGATTTGTAGACTTTGGGATCATCCTATGAGTTCT
AACATCATTTTCGCGAACCACGTGACGCGACTGCTTCAGAACTATAAGAAACAGCCTCGG
AATTCTATGATTAACAAGTCATCGTTGAGTGTAGAATTTCTGCCTCTGAACTACTTCATT
GAAATTCTGACAGATATAGAGTCCTCCAATCAACTGTATCCTTTTGAAGGACATGCAAT
GTGGATGCAGAATTTGTAGAGGAAGCAGCTCTGAAACACACCGCATGCTTTTAGGCTTA
TGA

Gene 812. >OTTHUMT00007007105 cDNA sequence

ATGCCCGGCCATGACAAACATCTTAATAACTATGCTTTATGTTTTAGAAAACGATTATGAG
AGCTTACATGTATTAAATGTTGAAAGAAATGGAAATATTATTTATACCTATAAGGATGAT
AAGGGAAATGTGCTCTTTGGATTATATGATTGTCAAACCAGACAAAATGAGGACTTCCCT
GGTAGTGCATACAAGAGTGAAACATGACCTAAACTGGTTGGATACAAGAGAATACTTTGCT
GCAAGTTTAGTTGAGTCTACTAAAGAAGGAAAAAGGAACGAACTTCAACCATCAAAGTGC
TTGACTTTGTTGGTTGAAATCCACCCTGTTAACAATGTGAAGGTTCTAAAGGCTGTGGAT
AGCTATATTTGGGTTGAGTTTCTCTACCCACATATTGAAAGTCATCCTCTTCCAGAGAAC
CATCTGTTACTGATTTGAGAAGAGAAAATTGAACAATTTGATATCCATGTGCGCCAAGAA
GATGGAAATAGAGTGGTGATTAAAAATTCTGGCCATCTCCAAGAGACAGAATAGCTGAG
GATTTGTTTTGGGCTCAGTGGGATATGTGAGAACAGAGATTATATTACATTGACCTGAAG
AAATCAAGGAGTATCTTAAATGTATCCAGTTTTATGCTGATGAGAGCTATAACTTAATG

FIGURE 1 (CONT'D)

TTTGAAGTACCTTGGACATATCATTAAGCAACTCAGGATTTCTTGTCAACTTTGGATGT
GATTATCATCAATACCGAGATAAATTTTCCAAACACCTGACTCTGTGTGTTTTTACCAAC
CATAACAATTTCTCGTGACCATTACTAG

Gene 813. >OTTHUMT00007007106 cDNA sequence

TAAATGGCAGCCAATGGAGGGTGGTGTGCGCGGGGCTGGGATTAGGGCCGGGGCGAATG
GCTGGCAATCTTACTGGGATTACAGAACAAAGAGCCTCCCCGCGCTCCCGCTCTCCGCTC
CTCTCCCCGCGCGCCCCGCCCTCCGCCGAGCCCGCGCCGGGGGTGGGGGCCGCCGAGC
GCCAGCCCCCGGCCGGCCGATTCCCCCCCCGCGCCCCCTCCCGCGCCTCCCTCCCCGC
CCTCGCCGCGCCGCCGTCTCGCCTCCCTCTGCCTCTCCTTCCCCATTCTCCCGGATTA
ATTAAGGAGGCAGCGGCAGGAGGCTGAGTCCTGGCCGCGGGCCGGGGCCGGGGCGCCGCT
GGCAGGAGCGCTTGGGGATCCTCCAAGGCGACCATGGCCTTGCTGGGTAAGCGCTGTGAC
GTCCCCACCAACGGCTGCGGACCCGACCGCTGGAACCTCCGCGTTCAACCGCAAAGACGAG
ATCATCACCAGCCTCGTGTCTGCCTTAGACTCCATGTGCTCAGCGCTGTCCAACTGAAC
GCCGAGGTGGCCTGTGTGCGCGTGACGATGAGAGCGCCTTTGTGGTGGGCACAGAGAAG
GGGAGAATGTTTCTGAATGCCCGGAAGGAGCTACAGTCAGACTTCTCAGGTTCTGCCGA
GGGCCCCCGTGAAGGATCCGGAGGCAGAGCACCCCAAGAAGGTGCAGCGGGCGAGGGT
GGAGGCCGTAGCCTCCCTCGGTCTCCCTGGAACATGGCTCAGATGTGTACCTTCTGCGG
AAGATGGTAGAGGAGGTGTTTGATGTTCTTTATAGCGAGGCCCTGGGAAGGGCCAGTGTG
GTGCCACTGCCCTATGAGAGGCTGCTCAGGGAGCCAGGGCTGCTGGCCGTGCAGGGGCTG
CCCGAAGGCCTGGCCTTCCGAAGGCCAGCCGAGTATGACCCCAAGGCCCTCATGGCCATC
CTGGAACACAGCCACCGCATCCGCTTCAAGCTCAAGAGGCCACTTGAGGATGGCGGGCGG
GACTCGAAGGCCCTGGTGGAGCTGAACGGTGTCTCCCTGATTCCCAAGGGGTACAGGGAC
TGTGGCCTGCATGGCCAGGCCCCCAAGGTGCCACCCAGGACCTGCCCCCAACCGCCACC
TCCTCCTCCATGGCCAGCTTCTGTACAGCACGGCGCTCCCCAACACGCCATCCGAGAG
CTCAAGCAGGAAGCACCTTCTGCCCCCTTGCCCCCAGCGACCTGGGCCTGAGTCGGCCCC
ATGCCAGAGCCCAAGGCCACCGGTGCCCAAGACTTCTCCGACTGTTGTGGACAGAAGCCC
ACTGGGCCTGGTGGGCCTCTCATCCAGAAGTCCATGCCTCCAAGCGCATTCTCTTCTCC
ATCGTCCATGACAAGTCAGAGAAGTGGGACGCCTTCATAAAGGAAACCGAGGACATCAAC
ACGCTCCGGGAGTGTGTGAGATCCTGTTTAAACAGCAGATATGCGGAAGCCCTGGGCCTG
GACCACATGGTCCCCGTGCCCTACCGGAAGATTGCCTGTGACCCGGAGGCTGTGGAGATC
GTGGGCATCCCGGACAAGATCCCTTCAAGCGCCCCCTGCACTTATGGAGTCCCCAAGCTG
AAGCGGATCCTGGAGGAGCGCCATAGTATCCAATTATCATTAAGAGGATGTTTGATGAG
CGAATTTTACAGGGAACAAGTTTACCAAAGACACCACGAAGCTGGAGCCAGCCAGCCCG
CCAGAGGACACCTCTGCAGAGGTCTTAGGGCCACCGTCTTGACCTTGCTGGGAATGCT
CGGTGAGACAAGGGCAGCATGTCTGAAGACTGTGGGCCAGGAACCTCCGGGGAGCTGGGC
GGGCTGAGGCCGATCAAAATTGAGCCAGAGGATCTGGACATCATTAGGTACCGTCCCA
GACCCCTCGCCAACCTCTGAGGAAATGACAGACTCGATGCCTGGGCACCTGCCATCGGAG
GATTCTGGTTATGGGATGGAGATGCTGACAGACAAAGGTCTGAGTGAGGACGCGCGGCC
GAGGAGAGGCCCGTGGAGGACAGCCACGGTGACGTGATCCGGCCCCTGCGGAAGCAGGTG
GAGCTGCTCTTCAACACACGATACGCCAAGGCCATTGGCATCTCGGAGCCCGTCAAGGTG
CCGTAATCCAAGTTTCTGATGCACCCGGAGGAGCTGTTTGTGGTGGGACTGCCTGAAGGC
ATCTCCCTCCGCAGGCCCAACTGCTTCGGGATCGCCAAGCTCCGGAAGATTCTGGAGGCC
AGCAACAGCATCCAGTTTGTCTCATCAAGAGGCCCGAGCTGCTCACTGAGGGAGTCAAAGAG
CCCATCATGGATAGTCAAGGAACTGCCTCCTCACTTGGCTTCTCTCCCCCTGCCCTGCC
CCAGAGAGGGATTCCGGGGACCCCTCTGGTGGACGAGAGCCTGAAGAGACAGGGCTTTCAA
GAAAATTATGACGCGAGGCTCTCACGGATCGACATCGCCAACACACTAAGGGAGCAGGTG
CAGGACCTTTTCAATAAGAAATACGGGGAAGCCTTGGGCATCAAGTACCCGGTCCAGGTG
CCCTACAAGCGGATCAAGAGTAACCCCGGCTCCGTGATCATCGAGGGGCTGCCCCAGGA
ATCCCGTTCGAAAGCCCTGTACCTTCGGCTCCCAGAACCTGGAGAGGATTCTTGCTGTG
GCTGACAAGATCAAGTTCACAGTCACAGGCCTTTCCAAGGACTCATCCCAAAGCCTGAT
GAAGATGACGCCAACAGACTCGGGGAGAAGGTGATCCTGCGGGAGCAGGTGAAGGAACTC
TTCAACGAGAAATACGGTGAGGCCCTGGGCCTGAACCGGCCGGTGTGGTCCCTTATAAA
CTAATCCGGGACAGCCAGACGCCGTGGAGGTACGGGTCTGCCTGATGACATCCCCTTC
CGGAACCCCAACACGTACGACATCCACCGGCTGGAGAAGATCCTGAAGGCCCGAGAGCAT

FIGURE 1 (CONT'D)

GTCCGCATGGTCATCATTAAACCAGCTCCAACCCTTTGCAGAAATCTGCAATGATGCCAAG
GTGCCAGCCAAAGACAGCAGCATTCCCAAGCGCAAGAGAAAGCGGGTCTCGGAAGGAAAT
TCCGTCTCCTCTTCCTCCTCGTCTTCCTCTTCCTCGTCTCTAACC CGGATT CAGTGGCA
TCGGCCAAACCAGATCTCACTCGTGCAATGGCCAATGTACATGGTGGACTATGCCGGCCTG
AACGTGCAGCTCCCGGGACCTCTTAATTACTAGACCTCAGTACTGAATCAGGACCTCACT
CAGAAAGACTAAAGGAAATGTAATTTATGTACAAAATGTATATT CGGATATGTATCGATG
CCTTTTAGTTTTTCCAATGATTTTTTACACTATATTCTGCCACCAAGGCCTTTTTTAAATA
AGTAAAAAA

Gene 814. >OTTHUMT00007007119 cDNA sequence

GTGGCGACGGTGGCGGACACTTGGGGTCTGGACGCAACGGCGGGGAGCATGAACGCCC
CTCCAGCCTTCGAGTCGTTCTTGCTCTTCGAGGGCGAGAAGATCACCATTAACAAGGACA
CCAAGGTACCCAATGCCTGTTTATTACCATGAACAAAGAAGACCACACACTGGGAAACA
TCATTAAATCACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTGT CAGTTT CCTGAGG
CCTCCCCAGCCACGCTTCTGTACAGCCTGCAGAACTCTGCCCCAGAGCACATCAGCTAT
GTGCCCCAGCTCTCAAACGACACCTTGGCGGGGAGGCTCACCTGTCCACCTT CACGCTG
GAGCAGCCTCTAGGCCAGTTCAGCAGCCACAACATCTCTGA

Gene 815. >OTTHUMT00007006171 cDNA sequence

GGAAGGCTGATAACCATCATTTTTACTCGTTACTTCCATTTTCTTCTACCTCAGTTTTAAA
GATGTGATAATATGTGGTCAAGTTAATCATGCCTGGATGTTGATGACACAACCTAAACTCA
CTGTGGAATGCTATTGATTTTTCTCAGTGAAAAATGTGATTCCAGATAAATATATAGTG
TCTACTTTTGCAAAGGTGGCGTTTAAATGTGCTGCGTTTGAATTTTCTGTTGTCTTCTC
CGACCCAAAACCTTTCAGATCTGT CAGCCACTGTAGGAACTTGCAAGAGTTGAATGTCTCT
GACTGCCCAACATTCAAGATGAATCAATGAGACACATTTCTGAGGGCTGCCCGGGGGTCT
CTGTGTCTCAATCTGTCTAACAACAACATATACCAACAGGACGATGCGACTCCTGCCGAGG
CACTTCCACAACCTTACAGAATCTTAGTTTGGCTTATTGCAGACGGTTACAGACAAAGGC
TTACAGTACCTGAACTTGGGGAATGGATGCCACAAGCTCATCTATCTGGACCTCTCTGGC
TGCACCCAGATTT CAGTCCAAGGCTTCAGGTACATTGCAAACAGCTGCACTGGAATTATG
CATCTTACCATTAAATGACATGCCAACTCTGACGGACAACCTGTGTAAGGCTTTAGTTGAA
AAATGCTCTCGTATTACATCGCTGGTTTTCTACTGGTGCACCGCATATCTCCGATTGTACT
TTCAGAGCTCTTTCTGCTTGTAAACTCAGAAAGATCCGATTTGAAGGAAATAAAGGGTT
ACTGATGCATCCTTCAAATTTATAGACAAGAATTATCCAAATCTCAGT CACATTTATATG
GCTGACTGCAAGGGAATAACAGACAGCAGCCTCAGATCCCTTT CACCTTTGAAGCAACTG
ACTGTGTTGAATTTGGCAAATTTGTGTAAGAATTGGTGATATGGGACTAAAGCAATTTCTT
GATGGTCTCTGCAAGCATGAGGATAAGAGAGCTAAATTTAAGCAACTGTGTGCGGCTAAGT
GATGCCTCTGTTATGAAACTATCTGAGCGCTGCCCTAATTTAAACTACTTGAGTTTACGA
AATTGTGAACATTTGACTGCCCAAGGAATTGGATATATTGTAAACATCTTTTCTTGGTA
TCAATAGATCTCTCTGGAACAGACATCTCTAATGAGGGTTTGAATGTGCTTTCCAGACAT
AAAAAATTGAAGGAACCTTCTGTATCTGAATGTTATAGAATCACTGATGATGGAATT CAG
GCATTCTGCAAAAGCTCACTGATCTTGGAACATTTGGATGTCTCTTATTGCTCCCAGCTG
TCAGATATGATTATCAAAGCACTGGCCATTTACTGCATTAACCTCACATCTCTCAGCATT
GCTGGCTGTCCAAAGATTA CTGACTCAGCAATGGAGATGTTATCGGCAAAATGCCATTAC
CTGCACATTTTGGATATCTCTGGTTGTGTCTTGCTTACTGACCAAATCCTTGAGGACCTT
CAGATAGGCTGCAAAACACTCCGGATCCTTAAGATGCAATACTGCACAAATATTTCCAAG
AAGGCAGCTCAAAGAATGTCATCTAAAGTTCAGCAGCAGGAATACAACTAATGACCCT
CCACGTTGGTTTGGCTATGATAGGGAAGGAAACCTGTTACAGAGCTTGACAAACATAACA
TCATCTAAAGGAGCCTTAGAATTAACAGTGAAAAAGTCAACATACAGCAGTGAAGACCAA
GCAGCGTGACCTTCAGCCTCAAGCAGGAAGAACAAAAAATCAAGAACTTGGCAAGTTTTTC
TCCATTTGTTGCAAGTATGTTTACTAGCTGAATCTCAATAACAATGTAAACAAGCAA

Gene 816. >OTTHUMT00007006177 cDNA sequence

CGTGGGCCGCCAGACTCGGGAGAGGCTCCGTCTTGTGCAAGGGTCTGTGGGCTGGCTGC
ACTGGCCTCTGCGGTGGTGCCTGCCAGAATGCCCCACTTGGAACCGTGGTGCTTTGTGCG
CGAGTCTCAAGTGTCCATCTTGCACTCCTTGTGTTGGAGAGAGACATCATTT CAGCTTTCC
ATCCATTTTATTTATGGACATACTGCTAGTGGAAGACCTATGTAAACACAAACGTTGTT
GAAAACCTTTAGAGCTCCCATGTGTTTGTGAATTGTGTTGAATGCTTTACATTGAGGCT

FIGURE 1 (CONT'D)

GCTTTTGGAAACAAATTTTAAACAAATTGAATCATCTTAGTTCTTCAGAGGATGGATGTTTC
TACTGAAATAACCTGTGAAACATTTAATGACTTTGTTTCGCTTGTTTAAACAAGTAACCAC
AGCTGAAAATCTTAAAGATCAGACTGTATATATTGTTCTAGATAAAGCAGAGTATCTAAG
AGATATGGAAGCAAATCTTTTGCCTGGATTTCTTAGATTACAAGAATTGGCTGACAGAAA
TGTGACTGTTCTCTTTCTCAGTGAAATTGTTTGGGAAAAGTTTCGTCCAAATACTGGATG
CTTTGAGCCGTTTGTCTTATATTTCCCTGATTACAGCATAGGCAACCTTCAAAGATCCT
GTCCCATGATCATCCTCCAGAGTATTCAGCTGATTTCTATGCTGCCTACATTAACATTCT
TCTTGGAGTTTTCTACACTGTTTGTGCGAGATTTGAAAGAGCTCAGACATCTGGCAGTACT
TAATTTTCTAAATATTGTGAACCCGTGGTTAAAGGAGAAGCAAGTGAACGTGATACTCG
CAAATGTGGAGAAATATTGAACCTCATTTGAAGAAAGCTATGCAGACTGTTTATCTCAG
GGAAATATCAAGTTCCAGTGGGAAAAGCTACAGAAAGATGACACAGATCCGGGGCAACT
GAAAGGCCTCTCAGCGCATACTCATGTGGAACCTTCATATTACTCTAAGTTCAATTCTAAT
TGCTGCATACCTTGCTTCATACAATCCAGCAAGAACTGACAAGAGGTTTTTTCTTAAGCA
TCATGGAAAAATCAAGAAAACCAACTTTCTAAAAAACAAGAAAGACAAGCAATCATCT
CCTTGGGCCAAAACCATTTCCACTAGACAGATTATTAGCAATATTATATAGTATCGTGGA
CAGCAGAGTTGCTCCAACAGCAAATATTTTTTCCAGATTACCTCTCTAGTGACCCTTCA
GCTGTTAACCTGGTTGGCCATGACGATCAGCTTGATGGACCAAATACAAATGCACAGT
GTCTCTAGACTTCATCAGAGCTATTGCAAGGACGGTGAACCTTGACATAATAAAATACTT
GTATGATTTCTTGTGAAAAACAAGCTTCAAAGCCATATGGACACTGTGACAATGACTAAGC
CAAGCTGTGTTTCATCCAGCTACTTAGCTGGCCAAGGAGAGGAGTTCTTTGGCTCTATTGG
ATTTGTCCAAACAGGTGCTGGCCCAGCATGGAATCTGATGAAAATATTCTGATTGGTCTG
GGTGGATGTGAGCAGAAGACTATTTACCAGGGACCCTGGAGTATTTGGAAGCAACGTGTT
AATTATAAACAGCAGGGTTTTGAGCACAATCTGTTCTACTCTTAATGATGTTATCTTAACA
CTGAAATTGCCTGAAACCCATTTACTTAGGACTACATTTTGCTCTGTGAACTATCCCCTG
CGCTTTGAACGTGCCAGCAGCCCTTGTTTATATGCCATTCTTTTCACTTCCTCTCCACA
GGAGCCTCTGCAGTCGCTTGCCAAAGCAGATTTTCTTAAGGCCACTGTTTTAAAGATCA
TAGTTGCAAATATAATAAATACAAGTTCTTTTTAAATCC

Gene 817. >OTTHUMT00007007126 cDNA sequence

ATGGGGCGGGGCTCTGGGAGGCGTGGCCTCCGGCCGGCTCCTCTGCTGTTGCCAAGGGA
AACTGCCGCGAGGAGGCGGAAGGAGCAGAGGACCGGCAGCCGGCGTTCGAGGCGGGGCGCG
GGAACGACGGCGGCCATGGCGGCCTCGGGGCCCCGGGTGTGCGAGCTGGTGCTTGTGTCCC
GAGGTGCCATCCGCCACCTTCTTCACTGCGCTGCTCTCGCTGCTGGTTTCCGGGCCTCGC
CTGTTCTCTGCTGCAGCAGCCCCTGGCGCCCTCGGGCCTCACGCTGAAGTCCGAGGCCCTT
CGCAACTGGCAAGTTTACAGGCTGGTAACCTACATCTTTGTCTACGAGAATCCCATCTCC
CTGCTCTGCGGCCTATCATCATCTGGCGCTTTGCTGGCAATTTGAGAGAACCCTGGGC
ACCGTCCGCCACTGCTTCTTCAACGTGATCTTCGCCATCTTCTCCGCTATCATCTTCTG
TCATTTCAGGCTGTGTCTACTGTCAAAGCTGGGGGAAGTGGAGGATGCCAGAGGTTTC
ACCCAGTGGCCTTTGCCATGTCTGGGAGTCACCAACCGTCCGTTCTCGGATGAGGCGGGCC
CTGGTGTGTTGGCATGGTTGTGCCCTCAGTCCTGGTTCCGTGGCTCCTGCTGGGTGCCTCG
TGGCTCATTCCCCAGACCTCTTTCTCAGTAATGTCTGCGGGCTGTCCATCGGGCTGGCC
TGTATCCACCTACTGCTATTCCATCGACCTCTCAGAGCGAGTGGCACTGAAGCTCGATCA
GACCTTCCCCCTTCAGCCTGATGAGGAGGATATCCGTGTTCAAGTACGTCTCAGGGTCTTC
AGCCGAGAGGAGGGCAGCCAGAGCCGAAACTGAACCCGGTGCCTGGCTCCTACCCAC
ACAGAGCTGCCACCCTCACTGTCCCCAAGCCACCCTGTGTCCAGACGCAGCACGCCAG
TGGTCAGAAGCTGGCCTCCTGGCCCTCCTGCAACCCCGGGCACATGCCACCTTGCCTCC
GTACCAGCCTGCCTCCGGCCTGTGCTATGTGCAGAACCACTTTGGTCCAAACCCACCTC
CTCCAGTGTCTACCCAGCTTCTGCGGGCACCTCCCTGGGCATCCAGCCCCCAGCCTGT
GAACAGCCCTGGCACGGTGTATTCTGGGGCCTTGGGCACACCAGGGGCTGCAGGCTCCAA
GGAGTCTCCAGGGTCCCCATGCCCTGAGAGAATTTCTAGGGAAGTCATCTCACTTGGCC
TTCTGAAGGTCTCCCTAAGAGTCTCCTGACAAAAGTTACTTATTGAACACCTCTATGTG
CCAGGCTCTGTGTTGGGTACTTTGATCAATGCCCCCTGTTTCAGTCTCATCTGTACTCACG
GCAGCCCTGTGGAGTACGGTGTACTGGCCCAGCTTACAGATGCAGAAAGCGAGACGTTCT
GCCATCAGATAAAGTCACGTGGCTCTTTAGTAACACGGACAAGGCTCCTCGCCAAGGAAC
TCGTGGCAGAAGAGGGCAGCAGTTGGCAGTAGCTGCCGATGTCTGTCCCCAGCTCCACCA

FIGURE 1 (CONT'D)

TTCTCCCTGTGGCTGTGCCGTGCTCGTGGTTTCAGTGTCCGTGTGTCCATGTGTCTGCC
CTTCAGGAGCTCGCAGCTGGTGTGCTTGGCGGTCCCAGGCCTGTGTAGTGTCTCTCCCT
GCTGCGGGCGCCCCACCCCGATTCTCTCCCCAGAAGCGGTGGGATGGGCCCCATGAA
CTGCAGCAGCATGCTGAGGTGTCCATGTTGTCTGCCTTTGTATAAAGAAACAGCCTCTGA
AAAGAAAAGAAAAAGACG

Gene 818. >OTTHUMT00007006180 cDNA sequence

GGAGAAGCACTACACCTAATCCTCTTACCTGCTACAGGCAATGTGGCAGAGAATTCTCCA
CCTGGGACTTCAGTGCACAAGTTTTCTGTGAAGTTATCAGCATCATTGTACCTGTGATC
CCAGGATTTCCCCAGATAGTCAACTCAAATCCCCCTCACTGAAGCTTTTAGGGTGAATTGG
CTGTGAGGCACCTACTTTGAGATGGGGAAAATGACGCACAGAGAGATTAACTACCCAACG
TCCTCTACCATCCCTCCAAGAAGATCCTACTCTCCAACCGAAATTGCTCACAAGAGTTAC
TCCTGCAGCCTTCCAGACATGAAAATCTCCATGGCAGAATCTGGCCCCCTCCTTGATAGC
CTTGACATTCTGGAGGATGGCGAGTCTGGGTCAACATTTCTTGTGACTCATTTGTACTTT
CTGGGGGTTGTCACTACTGGGATGGAACTAGATTTTGAAACAGGACCAACATATTT
GATTTGCAGATTTATGTGAAGGATGAGGTTGGTGTACAGACCTGCAAGTCCTGACTGTC
CAGGTAAACAGATGTGAACGAGCCACCTCAGTTTCAAGGCAACTTGGCAGAACATCTCCGT
GCAGACCAGCCACATTTCAATGCTCATAGTCAACGTACGTGAGGGTAGTGGCTACTGCA
TTGGCCAGGCACAGGCTTAGATCTAGCATTGGTTCCCCCTTCTGGGCACCTTCTGTGTT
GTGGTGGGCATGCAGTATTTCTGATTTCTCCCCAAAGAGCTTCAGAATGTCTGCTAAT
GGCACCTCTTTCTCCACAACAGAATTGGACTTTGAAGCAGGACACAGATTCCATCTCATC
GTGGAGGTGAGGGACAGTGGAGGCCTCAAAGCCTCCACAGAGCTCCAGGTGAACATCGTG
AACCTCAACGACGAAGTCCCTCGCTTTACCCCGACACGAGTGTACACAGTCCTGGAGGAA
CTGAGTCCAGGAACCATCGTGGCCAATATCACAGCGGAGGATCCTGATGATGAAGGTTTT
CCCAGCCACCTCCTCTACAGCATTACCACTGTTAGCAAATATTTATGATAAATCAGACT
GGTACAATCCAAGTGGCCCAAAGGATAGACCGAGATGCAGGTGAATTGAGACAAAATCCC
ACCATTTCCCTGGAAGTTCTAGTGAAGGACAGACCATATGGGGGTGAGGAGAATCGCATC
CAGATAACCTTCATTGTGGAAGACGTCAACGACAATCCTGCCACATGCCAAAAGTTCACC
TTCTCCAGTCTCCACCCTGCTCTGTGCTCCAAGACGCTGACCTGGATGGATACCGTATTA
GACTGTTTTTCATGCTGCTGATAAAGATATACCTGTGACTGGGCGATTTACAAAAGAAAGA
GGTTTAATTGGACTTACAGTTCCACATGGCTGGGGAAGCCTCACAATCATGGCAGAAGGC
AAGGAGGAGCAAGTCACATCTTACATGGATGGCAGCAGGCAAAGAGATAGAGCTTGTGTA
GGGAACTCCTCCTTATAAAGCCATCAGATCTCATGAGACTTAGTCACTATCACGAGAAC
AACTCAGGAAAGACTTGCCCCCATGATTCATTTCCTCCTACCAGGTCCCTCCCAACA
TGTAAGGAATTCATTAGCCCTGAAGGCCAATGTGAAATCCGTAGCTGGACTAAGTGCATTT
ATTACTGAAGATAATCTAACCAAGGCTCAAGTTCCCTCTTTGGGCTCTTCTAGCGGGAGG
AACTCTCAGCCACCCTATGAACGCCAAGATGTGAGGAAGGGCAACGAAAGGGACCCCTCC
TCTGCAGTTCAGGGGCGGAGGTCTTCAGCCTAAAGCCCAGCCTCGCGTCCCAAGGCTGC
ATAAGGGCGAACGTCTACGTTTATATCCTAACAAGCCCAGAAAATGAGTTTCTCTCATT
TTTGATAGGCCATCCTATGTATTTGATGTGTGAGAAAGAAGGCCCTTAAAGAAGTTCAT
TTACAAGGGGCGAGCAGGCAAGGTGGCACATGGAGACACCGTAAATCCACACCTTCTGGA
AAAACAACCTCGGTGTCTCTGCAGGTTACTGTGAACATCCTTGAAGAAAATGATGAAAAG
CCAATTTGTACTCCAACTCTTATTTCTGGCCCTCCCAGTGGATCTGAAAGTTGGCACA
AATATTGAGAATTTCAAGCTGACATGTACCGACCTTGATTCCAGCCCCAGATCTTTCCGT
TATTCCATTGGCCCAAACGTCAACAATCATTTTCACTTCTCTCCCAATGCTGGTTCCAAT
GTCACACGCCTGCTGCTTACATCTCGCTTTGACTATGCTGGTGGGTTTGATAAGATCTGG
GACTACAAGCTACTTGTCTACGTAACTGATGACAACTTGATGTCTGACAGGAAGAAAGCG
GAGGCTCTTGTGAGACAGGAACAGTGACACTGAGTATTAAAGTCATTCCCCACCCAACC
ACTATCATCACCACGACCCCCAGGGAGCTGATTTCCATGGGCATGCTGCCAGTTGCTACC
TTCACAACCCCTCTCTGCTTGTTCAGAAGAGTCTTTGCAAGTCAATATCCATGA

Gene 819. >OTTHUMT00007006186 cDNA sequence

CAGCAGCCGCAGCCGCCTCGCGCCCGGTCCCGCGGTGCGAGCTCCAGCCGCCTCCTCCGC
GCAGCCGCCGCCTCAGCTGCTCGCTCTGTGGGTGCGTCTCTCCGGCACTTGGGCTCCAG
TCGCGCCCTCCAAGCCCTTCAGGCCGCCCGAGTGTCTCTCTCTCCGGCCAGACCCA
GCCCCGCGAAGATGGTGGACCGCGAGCAACTGGTGCAGAAAGCCCGGTGGCCGAGCAGG

FIGURE 1 (CONT'D)

CGGAGCGCTACGACGACATGGCCGCGGCCATGAAGAACGTGACAGAGCTGAATGAGCCAC
TGTGCAATGAGGAAAGAAACCTTCTGTCTGTGGCCTACAAGAAGCTTGTGGGGGCAAGCC
GCTCTTCCTGGAGGGTCATCAGTAGCATTGAGCAGAAGACATCTGCAGACGGCAATGAGA
AGAAGATTGAGATGGTCCGTGCGTACCGGGAGAAGATAGAGAAGGAGTTGGAGGCTGTGT
GCCAGGATGTGCTGAGCCTGCTGGATAACTACCTGATCAAGAATTGCAGCGAGACCCAGT
ACGAGAGCAAAGTGTTCTACCTGAAGATGAAAGGGGACTACTACCGCTACCTGGCTGAAG
TGGCCACCGGAGAGAAAAGGGCGACGGTGGTGGAGTCCTCCGAGAAGGCCTACAGCGAAG
CCCACGAGATCAGCAAAGAGCACATGCAGCCCACCCACCCCATCCGATTAGGCCTGGCTC
TTAACTACTCCGTCTTCTACTATGAGATCCAGAACGCCCCAGAGCAAGCGTGCCACTTGG
CCAAGACCGCGTTTCGACGACGCCATCGCCGAGCTTGACACCCTCAACGAGGACTCCTACA
AGGACTCCACGCTCATCATGCAGCTCCTCCGCGACAACCTCACGCTCTGGACGAGCGACC
AGCAGGACGACGATGGCGGGCGAAGGCAACAATTAAGGCCCCAGGGGAACTGGCAGCGCAC
GCGGATGCTACTACTGCAGTCTTTATTTTTTTTCCCATGAGTTGGGGGTGGGTGGGGGAG
GGAAAGGGAGGGATGACCTTCCAGGGAGAAAACCCACGACCTGTCTGTCTTTGATCGCC
TCTTTGACATTTTTTGCCAAAATACCACTAGTGGAAAGTCAGGCTAGCTGTGCTGGTATTG
GAATAGCAGCCTCACACTGGCGTCTGGACTGTTCTGTAGATTATGCAAGTGGAGCTGTC
TGTCTCTAATTTAACTTATTGCTAGATAATAGGGTTTTTCAGATGAAAAGAAAACCTTAAAG
AGGAATGGCCCTCATTAGTAAGTTCTGTGGTTCCAGTAAGGATTTTTATGTACATACGC
TCTCGTCTCTCGTTTTGGGTACTTTCTATCTCATCTGTCTCGGCTCTGCATGTTTTCCAG
GGTGTAGCCTACAGACATGGAAAGTGTAAATCCAGACTGACAGACTTAGAACCTGAGG
TCTCATTATCTCTTATGGTTTAGGCCTTGCCAGTTTTCCGAAGTCTCTGATTAGTTGACA
GTATTAACACTAAATTGCAGTTTACAGTATTTCTACATTACAGCCATATGTAACATCAAG
CCATCGATTGTGTACTTTTCTTTGCTAGTTGTTTGGGCTTTAACATCCTTATTCAGCCT
TATCCAGGTTGGTTTTGCTGTTGATCGGTCTCCTAGGCTAAATGAGAATGAAAGCGACTT
CAGGTACAGGTGGCTGTGGGATTTTTTTTTTTTTTGGTCCTTCTTTCTCTTAACGTAAATCC
ACCACAAAATTATTAATCCTCTTGAGAGAAACGTGAAACGCCACAAAATAGAGAAAAT
TCAGGTCTGTATGTATGATCGTGTGGTATTTTCAGAGAACATCCCGCTTCTGAAGCT
GCTGCAGCTCCCTCCTCAGGGATCACACTGCCGTACCCACTCTGCACTGGGGCGTTTTCC
TACTGCGCCTCGTGCTGGCGGACGAGCTGGGTGCAGAAGCTGTGGGGTCGGAGAGGCGT
TTGGAGAAGGTCTGTGGTGCAGTGTGTGAAAATTGAGGTGCTAGAAGCCTACTGGTAGAA
AAACCCAAAAGGAAGAGCTATATCCTTAACCATCTGTCCAATTTCCGGAGCCTTGTGAG
TGTGTGAGTTTTTCTCCCCGAAGACACTCCTTCCCCAAGTAATTGTAGGAAGATAAAAA
AACTGTTACCAGATAACAAACACTGAACTCCTATTTGACCAGAACTTTTTCTCTCGAGA
TAGTTTTTTCTTTTTTAATGAAAAAAGCATAGGAATTGGAGATTGGCTTGTCTCACGCAGC
CAGTGACATTTTGAATTGACGGAACAACGTTGCTATTTCCACCCATTTGTTTTCGGCA
GCCTTAAGGCCCTCATTCTCATTTTGGGTGAATCTGTCTATCTGTGAACGTGGCCCCGCAT
GTGCATTCTTTTTTTTTATATATATAAAGTCAGTGACGAGGAACTCCCGAGACGTGTAATG
ACACCACACTTGTTTTTCTTTGTTTTCTTTGTTTTATTTAGGCAAGAAGAGGTGTGAGTAAT
TGAGGAAAAACTGACAGATGCTTTTGCTAATACCAAAATTGAGCTTACAATTAGGAACTG
AGTATGTGTAAACAGGATACAGGTGACAGTGAAGATAGAAGAACCACGATGACCACAGACT
CAATGTGCTCTGTAAACATCGCACAGTTTACCCAGCATGACTTTCTTAGGAGGCCCCCTC
CTCACGCTAGAGTAAAAGTCCCAGTTAAGTGAAGCCTACCAAGAAGAACTAGTAGAAGAAG
CTTTGCCGCTTTTGTGCCTCTCACAGGCGCTAAAGTCATTGCCATGGGAGGAAGACGAT
TTGGGGGGGGAGGGGGGGGGGGCAGGGTAGGTGGGGCTTTCCCTAATTTATCTTCATGT
CCAGTGAGCAGTGTGCGTTTTTTCTTTGTAGCATTGGAATGATTTACTGGAATTACAA
AACCTATTTTTCTTTTAAATTTTCTGCTTTGGCTCTGGCTGCTTTTTTAGAATAATGCAAGA
TAAAAATCACACCTGAGGGCTGAAAACGGAGAGGGAATGGGAGACTTGATATTTAAGCAG
CTTGAATGGTTTTTTCTTTTCTTTATTTTTTAAAGAAATGCACTTGCCATGATACTGTCTC
TCCAGTGAAATGATTACTCCTCCATTAATCTATTGATACAAATATTGTGCATGCTAGTGTT
GTATTTCTATACAGTAGCTTGAAATTGATTAACTTATACTGTAGGTGTTATGTATTCTTA
TGACAAAAAAATTAAGTCTTCAAATTTTTTAAAGGTTTTTTTTTTTTTAAATTTAATTTTT
CCTTTTGGGGGTAAAGTTTGCTCTACCAATAGTGATTGTAACAAATGATCTGTTTTGG
ATGTTGCTATAGTGACATGCAGTTATATATTTTTGTTTTTAAAGGGGGGGGAGCAAAAGAA
ACACCAGTGTTAGCTTAATCTTAATGTCTGGTGTGTTGTGATGGTGAAATTATAACTATTA

FIGURE 1 (CONT'D)

CAGTGTGGAGAACAAACAATATGTTCTCTGAATGAGCCTTTGTGCTTTTGTGTCATGTTA
TGCAGTGAACCTATTTTTTAAGGTCTAATCAGTGATTATTTTTCCAGCTCCGTGTTTCTCTA
AGGAATTATTTTACACACGGACCATCTTTAGCAGTTTCCTCAGTGATGGAATATCATGAA
TGTGAGTCATTATGTAGCTGTCGTACATTGAGCAAATAAACTTACAGATCTGA

Gene 820. >OTTHUMT00007006188 cDNA sequence

TTTTCTGGGGCCGCTCCAGCTGGTGCCGGCCACCTCCACTCCCCCTTTGCTTCTTGCTGTC
CCTAAGGTTCGGATGGGGACAGGCTGGGGCCACCAGCCAGCTCCATGGACAGGGACTTTGC
CTCTGCTCACCTTCCAGCTGTGGAAAGAAAAGAAGAAACGCCTGTGTTGATTTCATTG
GAAGATCCTTCTCTCTCTAAACTTCCAGGGGCAGACAAAGTGATTGATCTTGGATTGA
CTGTAGAAGAAGGGACAGAAAGAGCCCAGAACATTCCCCCAGATGTTCCAACTGTGACTT
CTCCCTGGCGCCTTGATGGGAGCATCTGAAACACCCTTACCATCTAGATGCACAAGGAA
GCAGAGATGCTAATTGGTCCCAGCTGGATGAGAAGCGCTGGGGGTGGAGGTTGGGAGAT
GGGAGTGCTGCCCCCTCCCTTCTCCCCAAGCCCTGTCTTCTCTCTCTCTCTGCCACTG
GCCAGCGCCCTACAGCCCACTCCA CTGCCCTTTCAAGAGCTGAGGCTGGTGGGGGGCCCC
AGCCGCTGCCGGGGCCGCTGGAACTCATGCACGGTGGCTCCTGGGGCAGCGTCTGTGAT
GACGACTGGGACGTGGTGGACGCCAACGTAGTGTGTGCCAGCTGGGCTGTGGCCTGGCA
CTGCCCCTGCCACGGCCCCCTTGCCCTTTGGCCAAGGCCGAGGCCCCATCCTGCTGGACAAC
GTGGAGTGCCGCGGGCAGGAAGCTGCGCTGAGCGAGTGCGGCAGCCGCGGCTGGGGCGTC
CACAATTGCTTTCACTACGAGGATGTGGCTGTCTGTGTGATGAATTCTTGCCAACGCAG
CCCCCAACAAGGAAGATGTTAACCAGTAGAGCACCTCCTACGACACTGCCGAATGGAAAA
AGTGAGGGCAGCGTACGCCTGGTAGGGGGCGCGAACCTGTGTGAGGGCCGAGTGGAGATC
CTGCACAGTGGCCTGTGGGGCACCGTGTGTGACGACGACTGGGGCTGCCGGATGCCGCT
GTGGTCTGTGCTCAGCTGGGCTGCGGGGGCGGCCATGGCCGCCACCACCAACGCCTTCTTC
GGCTATGGCACCGGACACATCCTGCTGGACAACGTGCACTGCGAAGGCGGCGAGCCCCGC
CTGGCAGCCTGCCAGAGCCTGGGCTGGGGTGTGCACAACTGCGGCCACCACGAGGACGCG
GGCGCGCTCTGCGCAGGCCTGGGTCCCCCAACGCTCACAGCACTGCCATCCTCAGCCACA
AGAGAGGACTGGGCTTGGCAGACAGATCCGTCCGCTACAGGAGTTGGCCCCCAGCCTTCC
CGGGAGACAGCACTGCTCACCACCGCCGCTGGGCCGCGGGGAAGAAAAGTGGACGGCTG
CGACTGGTGGGCGGCCCCGGGTCCGTGCCGCGGCGCGTGGAGGTGTTGCACGCCGGGGC
TGGGGCACCGTGTGCGACGATGACTGGGACTTTGCGGACGCGCGCTGGCCTGCCGCGAA
GCGGGCTGCGGGCCTGCGCTGGGCGCTACGGGACTGGGCCACTTCGGCTACGGCCGCGGC
CCCGTGTGCTGGACAACGTGGGCTGCGCCGGCACCGAGGCTCGCCTGAGCGACTGCTTC
CACCTGGGCTGGGGCCAGCACAACTGCGGCCACCACGAGGACGCGGGAGCGCTCTGCGCA
GGCCCAGAGGAGCTGGGACTGCAAGTCCAGCAGGATGGTTCTGAGACCACGCGGGTGCCC
ACTCCTCGGCCCAGGGACGGGCATCTACGTCTGGTCAATGGAGCCCACCGATGCGAGGGA
CGTGTAGAGCTCTACCTAGGGCAACGGTGGGGCACTGTCTGTGATGATGCTTGGGACCTG
CGGGCAGCCGGTGTCTGTGCCGCCAGCTGGGCTGTGGCCAGGCCCTCGCAGCCCCTGGC
GAGGCTCACTTTGGCCCAGGCCGAGGCCCATTTCTCCTGGACAATGTCAAGTGCCGTGGG
GAAGAAAGTGCTCTGCTGCTCTGCTCTCATATCCGCTGGGATGCCACAACCTGTGACCAC
AGCGAGGATGCCAGTGCTGTGCCAGCCTTCATGACCCAGCCCCTCTGCAGACCACCT
CTTCTTCTGGGAGCTGTGACCTCCCTTCTCTCTCCAGGAAGCCCTCCTCTTGTGATGACT
ACAGTTCACCTTGGCCCCCTCTTCCCTTGCCCTGGGAGAGAGCCTACCTAGACAGTGACGTC
CTGCTTGGGGGAGCCTGGCTGTACCCCGTCCACTTACTGCGTGACCTCAGCCTGTCTATC
GACTGTTGTGAGCCCAATTCAAGTGAAGCTCCTGTGGTTTTGCTCAGCCAAAACCAAAAC
GAGGGGAAGAGGATGATTCTAACTCTTCTGTTTTGGTGGGGCTCTTTTTATAGCACCAGA
CTCTGCCTTCTTGACCTAGATCCAGGAGGCTCAGGGGCTCTTTAAATGGGGTATCTCCT
CTTCCCCCAACCCATCTTGGGATCCCCAAGAAGAGGGAAGGCAGGAGGGGCTACAGCTC
CTACCTTGGGCCCCTCAGGGGCTGCAGAGGAACCTGGGTCCCTGTCTGCCCCTGCTCCGCG
AGGGCCTGGACTAACTCAGATGGTGCTCGGCTGGACAAGGGGACTGGGGGAGGGGCCAAA
GCAGGGACAGTGGCCCCCTCCCTGCAGCTGGAACAGCATCTCTGATTTATGCCGTCTCCA
CCACAGAGCCTCCACTTTGCAGGAGTGAAGAACCTGGGGCCTGTAGCCACCAGTTTCAT
AGGTGCCAAGTCAATAAAGCATTGTCCCCCGTCTCTTATAACTGCA

Gene 821. >OTTHUMT00007006195 cDNA sequence

ATGAACGCCCTCCAGCCTTCGAGTCGTTCTTGCTCTTCGAGGGCGAGATCACCATTAAAC

FIGURE 1 (CONT'D)

AAGGACACCAAGGTACCCAAGGCCTGCTTATTACCATCAACAAAGAAGACCACACACTG
GGAAACATCATTAAACAACCTCTAAAAGACCCGCAAGTGCTATTTGCTGGCTACAAAGTC
CCCCACCCCTTGGAGCACAAGATCATCATCCGAGTGACAGACCACGCCGGA CTACAGCCCC
CAGGAAGCCTTTACCAACGCCATCACCGACCTCATCAGTGAGCTGTCCCTGCTGGAGGAG
CGCTTCGGGTGAGGGCGGGCCTGGAGGGGCAGACGGGTGGGCTGGACACTGGCCCGT
GTGCCCAGGCCTGGGACAGCCCTGGCCTGTTTCTTCGGAGGTCTCAGGGAGAGGCGGCG
GTGATGGAAGAACAGGGACTTCCACCACAGGCTCCAGGACATGTGGACTGA

Gene 822. >OTTHUMT00007006196 cDNA sequence

GAGAGTCGGAGCCACAGCCAGAGCCCTGCCCAGGCCGAGCCGGAGCTGCAGCCCCGAGCGC
GGTGGTGCCCTCAGCCCCGTCTCTTGTCCTCCTCAGCCTCGATCTGCCGGAGGCGCTGG
GCAATGACCCCGGGACTCCAGGCCAGAGGGGTCTGAAGCTGTTTGGGAAAGCAGCGGGAC
TCCTTGGGAAGATGGCCATGGCCCCAAGCCCTTCCCTGGTGAGGTGTACACCAGCCCCG
CGGCTGTGGCCGTGTGGGAATGGCAGGACGGGCTGGGCACCTGGCACCCCTACAGTGCCA
CCGTCTGCAGCTTCATCGAGCAGCAGTTTGTCCAGCAGAAGGGCCAACGTTTTGGGCTTG
GGAGCCTGGCCACAGCATCCCCCTGGGCCAGGCAGACCCCTCGCTGGCCCCCTTACATTA
TTGACCTCCCCAGCTGGACCCAGTTCCGCCAGGACACCGGCACCATGCGGGCTGTGCGGA
GACACCTGTTCCCCCAGCACTCAGCCCCCTGGCCGAGGTGTCTGTCTGGGAGTGGCTGAGCG
ACGATGGCTCCTGGACTGCCTATGAAGCCAGCGTCTGTGACTATCTGGAGCAGCAGGTGG
CCAGGGGCAACCAGCTCGTGGACTTGGCCCCCTGGGGTACAACCTACACTGTCAACTACA
CCACCCACACGCAGACCAACAAGACTTCCAGCTTCTGCCGCAGCGTGCGGCGCAAGCAG
GGCCGCCTTACCCGGTGACCACCATCATCGCTCCGCCGGGCCACACAGGCGTCGCCTGCT
CTTGCCACCAGTGCCTCAGTGGCAGCAGAACTGGCCCCGTGTGAGGCCGCTACCGCCACT
CCATGACCAACCTCCCTGCATACCCCGTCCCCCAGCACCCCCACACAGGACCGCTTCTG
TGTTTGGGACCCACCAGGCCTTTGCACCGTACAACAAACCTCACTCTCCGGGGCCCGGT
CTGCGCCAGGCTGAACACCACCAACGCCTGGGGCGCAGCTCCTCCTTCCCTGGGGAGCC
AGCCCCCTTACCGCTCCAGCCTCTCCACCTGGGACCGCAGCACCTGCCCCCAGGATCCT
CCACCTCCGGTGAGTCACTGCCTCCCTCCCCAGCGGTCCCTCAAGCAGCCCAGGGAGCG
TCCCTGCCACTGTGCCCATGCAGATGCCAAAGCCAGCAGAGTCCAGCAGGCGCTCGCAG
GCATGACGAGTGTCTGATGTGAGCCATTGGACTCCCTGTGTGTCTTAGCCGCGCACCCC
AGCCCACCAGCCCTCCCGCTCCCGTCTGGCTTCCAAAAGTACGGCTCAGTTAAGAGAT
TGAGGAAAATGTCCGTGAAAGGAGCGACCCCGAAGCCAGAGCCAGAGCCAGAGCAGGTCA
TAAAAAACTACACGGAAGAGCTGAAAGTGCCCCCAGATGAGGACTGCATCATCTGCATGG
AGAAGCTGTCCACAGCGTCTGGATACAGCGATGTGACTGACAGCAAGGCAATCGGGTCCC
TAGCTGTGGGCCACCTCACCAAGTGACGCCATGCCTTCCACCTGCTGTGCCTCCTGGCCA
TGTA CTGCAACGGCAATAAGGATGGAAGTCTGCAGTGTCCCTCCTGCAAAACCATCTATG
GAGAGAAGACGGGGACCCAGCCCCAGGGAAAGATGGAGGTATTACGGTTCCAGATGTGCG
TCCCCGGCCACGAGGACTGCGGGACCATCCTCATAGTTTACAGCATTCCCCATGGTATCC
AGGGCCCTGAGCACCCCAATCCCGGAAAGCCGTTCACTGCCAGAGGGTTTCCCCGCCAGT
GCTACCTTCCAGACAACGCCCAGGGCCGCAAGGTCTTAGAGCTCCTGAAGGTGGCCTGGA
AGAGGCGGCTCATCTTACAGTGGGCACGTCCAGCACACGGGTGAGACGGACACCGTGG
TATGGAACGAGATCCACCACAAGACAGAGATGGACCGCAACATTACGGGCCACGGCTATC
CCGACCCCAACTACCTGCAGAACGTGCTGGCTGAGCTGGCTGCCAGGGGGTGACCGAGG
ACTGCCTGGAGCAGCAGTGACCTCGCACCCACGACGCCCGCTCTGGTGGCCACCCCGC
TGCCCATGGCTGGCTGGGTGGCCAGGCAGGAAGTGCCAGCCCGAGAGGCTGGGAGGTT
TGTTGAGGGTGTGGGGTGTGCCCCACCTGAAGCCGGGGCTCCCCCTGCCTGCCTCTCTCT
CCTCCTCCCCCTTGGAATTGGGCAGCCCTGGGCAGTTGTA CTATGAGGGGCTTAGGATG
CAGCTACCTCAGTGCAGGGCCCGTCTGTCTCTGGGGGCTGCTTCGGGGCCCGCGGTGC
TCGGGGCCTGGTGTGGGGCGAGTAGAGACTTCCCCAGCCTGGACGGGCGTGGGTTCTGGG
TCAGCTTCTTTTACCTCAATTTTGTGTTGCAATAAATGCTCTATAGCCAAA

Gene 823. >OTTHUMT00007007151 cDNA sequence

GGCGCTGGGCAGTGTGGAGGTGTTGGAGTCACTTCCCCGTCACCAGCTCCTGTGCCTGC
CAGTCGGTGCCCTCCCGCTCCAGCCATGCTCTCCGCCCTCGCCCGGCTGCCAGCGCTG
CTCTCCGCCGAGCTTCAGCACCTCGGCCCAGAACAATGCTAAAGTAGCTGTGCTAGGGG
CCTCTGGAGGCATCGGGCAGCCACTTCACTTCTCCTGAAGAACAGCCCTTGGTGAGCC

FIGURE 1 (CONT'D)

GCCTGACCCCTCTATGATATCGCGCACACACCCGGAGTGGCCGCAGATCTGAGCCACATCG
AGACCAAAGCCGCTGTGAAAGGCTACCTCGGACCTGAACAGCTGCCTGACTGCCTGAAAG
GTTGTGATGTGGTAGTTATTCCGGCTGGAGTCCCCAGAAAGCCAGGCATGACCCGGGACG
ACCTGTTCAACACCAATGCCACGATTGTGGCCACCCTGACCGCTGCCTGTGCCAGCACT
GCCCCGAAGCCATGATCTGCGTCATTGCCAATCCGGTTAATTCCACCATCCCCATCACAG
CAGAAGTTTTCAAGAAGCATGGAGTGTACAACCCCAACAAAATCTTCGGCGTGACGACCC
TGGACATCGTCAGAGCCAACACCTTTGTTGCAGAGCTGAAGGGTTTGGATCCAGCTCGAG
TCAACGTCCCTGTCAATTGGTGGCCATGCTGGGAAGACCATCATCCCCCTGATCTCTCAGT
GCACCCCCAAGGTGGACTTTCCCCAGGACAGCTGACAGCACTCACTGGGCGGATCCAGG
AGGCCGGCACGGAGGTGGTCAAGGCTAAAGCCGGAGCAGGCTCTGCCACCCTCTCCATGG
CGTATGCCGGCGCCGCTTTGTCTTCTCCCTTGTGGATGCAATGAATGGAAAGGAAGGTG
TTGTGGAATGTTCTTCGTTAAGTCAAGGAAACGGAATGTACCTACTTCTCCACACCGC
TGCTGCTTGGGAAAAAGGGCATCGAGAAGAACCTGGGCATCGGCAAAGTCTCCTCTTTTG
AGGAGAAGATGATCTCGGATGCCATCCCCGAGCTGAAGGCCTCCATCAAGAAGGGGGAAG
ATTTTCGTGAAGACCCCTGAAGTGAGCCGCTGTGACGGGTGGCCAGTTTCCTTAATTTATGA
AGGCATCATGTCACTGCAAAGCCGTTGCAGATAAACTTTGTATTTTAATTTGCTTTGGTG
ATGATTACTGTATTGACATCATCATGCCTTCCAAATTGTGGGTGGCTCTGTGGGCGCATC
AATAAAAGCCGTCTTTGATTTTTATTTTTCAAGGTCCCTTCTGTAAA

Gene 824. >OTTHUMT00007007156 cDNA sequence

ATGGACAGAACGGGAGACTAGGTTCCGTAAGAGGGGACAGATTAAGGGAAAGATCACGACC
AGCCGTCAACCTCACCCCCAGAATGAGCAGAGTCCCCAGCGGAGCACCTCGGGGTACTCC
CTCCAGGAGGTGGTGGATGATGAAGTGTTGGGATCATCACCTGGGGTAGATCCCAGCCCC
CCATGTAGGTCCCTTGGCTGGAAAAGGAAGAAGGAGTGGTCAGATGAATCTGAGGAGGAG
CCGGAGAAGGAGCTCGCCCCCTGAGCCTGAGGAGACCTGGGTAGTGGAGATGCTGTGTGGG
CTCAAGATGAAGCTGAAGCAAAGCAGCGAGTGTACCCCATCCTCCCTGAGCACCACAAGGAC
TTCAACAGTCAGCTTCTGGGGTAGATCCCAGCCCCCGCATAGGTCTTTTGTCTGGAAA
AGGAAGAGGGAGTGGTGGGACGAATCTGAGGAGTCTGTTGGAGGAGGAGCCACGGAAGGTG
CTCGCCCCCTGAGCCTGAGGAGATCTGGGTGGTGGAGATGCTGTGTGGCCTCAAGATGAAG
CTGAAGCGACGGCGAGTGTGCTCGTCTCCCTGAGCACCACGAGGCCTTCAACAGGCTG
CTTGATCCTGTCAATTAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTGTCTGGACAAG
TATCTCCTGGCTATGGTCATAGCGTATTTTCCAGCCGGGCCGGCCTCCCCCTCCTGGCAATAC
CAACGCATTCAATTTCTTCTGGCTTACCTGGCCAATGACATGGAGGAGGACGACGAGGAC
CCCAAACAAAACATCTTCTACTTCTGTATGGGAAGACCCGCTCTCGCATAACCTTGGTC
CGTAACCGTCGGTTCAGTTATGCCGTTGCATGAACCCGAGGGCCAGGAAGAACCGCTCT
CAGATAGCCCTGTTCCAGAACTTTCGGTTCAGTTCTTCTGTTCCATGAGCGGCAGGGCT
TGGGTTTTCCCGGGAGGAGTTGGAGGAGAACACCGGACCCACGGGAGATGTGGATTTTTCAG
CAGGAACCTTTATTCCAATGCTAATGGCAGTCAACAGGAAAGAGGAGAGGAACCATTTGTG
CAGATCATCTAG

Gene 825. >OTTHUMT00007006504 cDNA sequence

ATGTCCTCCACCGTGAAACACGGGGCGGCCAGCATGCAGTCCACACCCGACGCGCGAAC
GGCTTCCCGCAGCCCAGCTCCTCCTCGGGGACCTGGCCGCGGGCGGAAGAGGAGCTGCGC
GCCGCGGAGCCGGGCCTGGTGAAGCGCGCGCACCGCGAGATCCTGGACCAAGAGCGCAAG
CGGCGGGTGGAGCTCAAGTGCATGGAGCTGCAGGAGATGATGGAGGAGCAGTATTCCGAG
GAGGAGATTCCGCAGAAAGTGGGGACATTCCGGCAGATGCTGATGGAGAAGGAGGGAGTG
CTCACCAGGGAGGACCGGCCTGGGGGCCACGTGGCGGAGACCCCGCGGCTGACCGAGGGC
GCTGAGCCGGGCCTGGAGTACGCGCCCTTTGACGATGACGACGGCCAGTGGACTGTGAC
TGCCCGGCCTCCTGCTACCGCGGCCACCGCGGGTACACCAAGCATTGGTCTAGCAGCTCG
GCATCGCCCCCTCCCAAGAAAAAGAAAGAGTGTGAAGAAGCATCGCCGAGACTCTGAT
TCTGGGTCCCGGAGGAAGAGACGGCACTCTCGAAGCTCCAAGTGCAAAAGAAAAGAGAAG
AACAAAGAGAAGAAGCTGAGCCCCAAGCACCGAGACGAAGGGCGAAAGACGGGCAGCCAG
CGGTCCAGCGGAAGCCGGTGCCTTCCCCGTGGGGCGGCAGCGGATGGGGGTGCCCCAG
CGGAACGGCGGCAGCGGGCAGCGGAGCGGAGCGCACGGGGGCGCCCCGGCTCGGCGCAC
AGCCCGCCCGATCCCCGGGACTTCGGTCAACCCGCTGGCCTTCAGGGCCCTTTCCGGCA

FIGURE 1 (CONT'D)

AAAGGCAGTGACAGAGGAGCCAGTGCGGGGCTCCTGGCCTTCAGATCCTGGAGGAAGTT
CTGGCCAAGAAGCCAGCTCGCCCTCGCCAGGGTCCGTGACAAGGCGGCGGCCGCGCA
CCACGCGCGCCGCGCGGGGGAAGGAGAGCCCGAGCCGCGCTCGGCGCCGTCGTCCAA
GGTCGCGGAGGCCGCGCGGGCGGGGCGGGCAGGCGGCGGCGGCGGCGTAGGCGG
CGGCGCTCGCGGTCTCGGCGTCCGCGCCCCGCCGAGGGGTGCGCGGCGCCCCCGGCC
GCGCCCCCGGGGCTCGTCGCGCTCGCTCAGCAGGGCCCGCTCCAGCAGCGACTCCGGC
AGCGGCCGCGGCGCCCCCGGCCCGGGGCCGAGCCCGGCTCTGAGCGAGGCCACGGCGGA
CACGGGAAAGCAAGGAGCGGCCCCCGCGCGCGCGGCGGCCAGCACCTCTCCGTCCCG
GGCGCGCAGGCCGGCGCGGCGGCCAGAAAGGAAGAGCTCGTCGCGAGCCCCGGCCCG
CACCCCGCTCCTGGAGCTCCAGCCGCTCGCCCTCAAATCTCGCTCGCGCTCTGCGGAG
AAGCGGCCCAACAGCCCGAGCCGCTCGCCGTGCCCCAAGAAGCCCTCAGCGACAAGGAC
GGCGAGGGCCGCGCAAGGCACTCTGAGGCCGAGGCCACCCGCGCCCGGCGCCGCTCCCG
AGCTACTCGCCCATCCGAAGCGGCGCGGGACTCGCCAAGCTTCATGGAGCCGCGGCGC
ATCAGCTGCTTGAGCAGCGACTACTCGACCCGGAGCCACAGCCGAGCCCCAGCCCCGGC
CACAGCCACGGGAGCTACAGCAGTCGAGCCATGGGACCCGAGCCGACACGAGCCCC
TCGAGGACCCCGAGTCCAGCTACACAGCCGGAGCAGCTCTGAGAGCGGGGCTTCTGA
Gene 826. >OTTHUMT00007007168 cDNA sequence

ATGGAGTGGTGGGACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCC
CCTGAGCCTGAGGAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAG
CGACGGCGAGTGTGCTCGTCTCCCTGAGCACCACGAGGCCCTTCAACAGGCTGCTTGA
GATCCTGTATTAAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAGTAT
CTCCTGGCTATGGTCATAGCGTATTTAGCCGGGCGGGCTTCCCCTCCTGGCAATACCAA
CGCATTCAATTTCTTCTGGCTCTCTACCTGGCCAATGACATGGAGGAGGACGACGAGGAC
TCCAAACAAAACATCTTCCACTTCTGTATGGGAAGAACCCTCTCGCATACCTTGCTC
CGTAAGCGTTGGTTCCAGTTAGGCCGTTCCATGAACCCGAGGGCCAGGAAGAACCCTCT
CGCATACCTTGCTCCGTAAGCGTCGGTTCCAGTTAGGCCGTTCCATGAACCCGAGGGCC
AGGAAGAACCCTCTCGCATACCTTGCTCCGTAAGCGTCGGTTCCAGTTAGGCCGTTCC
ATGAACCTGAGGGCCAGGAAGAACCCTCTCAGATAGTCCTGTTCCAGAAACGTCGGTTC
CAGTTCTTCTGTTCCATGAGCGGCAGGGCTTGGGTTTCCCGGAGGAGTTGGAGGAGATC
CAGGCTTATGACCCAGAGCACTGGAACACCGGACCCAGGGGAGATGTGGATTTTTCAGCAG
GAACCTTTATTCCAATGCTAATGGCAGACACCAGGAAGGAGGAGGAACCATTTGTGCAG
ATCATCTAG

Gene 827. >OTTHUMT00007007171 cDNA sequence

CGTTGGCCGGGCCCCGGGGAGGAGGGGAATCTCCCGCCATTTTTCAATAATTTCTCCGG
TGCTGCTGAGGAGGAGTCTGTAAGTCCCGGCCCGGGGACCCGAAGCGGAGGTGCGCGGGG
GGCTGCTGGGAGGCGCGGCGGTGTGCGCGGGAGCTCTGCGCCGTGGCGTTCCGCTCATG
ACTGTGCGCGCGGCCGCGCCGGCGGTGAGGGAGCCGAGTTCGCGCCGCTCTCACCCCT
CCCTTCCCCCACCCACCCCGGGCGCTGGCGCTCGCTCCGGGCCGCGGGGCTAGTGC
TGCGCCGCGGGGCGGGCCCGAGCAGCCGCGAGTCCCCACCGCCGCGCCGCGATGGCGCC
GCTCCTGGGCGCAAGCCCTTCCCCTGGTGAAGCCGTTGCCCGGAGAGGAGCCGCTCTT
CACCATCCCGCACACTCAGGAGGCCTTCCGCAACCCGGGAAGAGTATGAAGCCCGCTTGGA
AAGGTACAGTGAGCGCATTTGGACGTGCAAGAGTACTGGAAGCAGTCAGCTAACACACAA
GGAAGCCTGGGAGGAAGAACAGGAAGTTGCTGAGCTTTTGAAGGAGGAGTTTCTGCTG
GTATGAGAAGCTTGTCTGGAAATGGTTCAACATAACACAGCCTCCTTAGAGAAGTTAGT
AGATACTGCTTGGTTGGAGATCATGACCAAATATGCTGTGGGAGAAGAGTGTGACTTCGA
GGTTGGGAAGGAGAAAATGCTCAAGGTGAAGATTGTGAAGATTATCCTTTGGAGAAAGT
GGATGAAGAGGCCACTGAGAAGAAATCTGATGGTGCCTGTGATTCTCATCAAGTGACAA
AGAGAATCCAGTCAGATTGCTCAGGACCATCAGAAGAAGGAGACAGTTGTGAAAGAGGA
TGAAGGAAGGAGAGAGATTAATGACAGAGCACGTAGATCGCCACGAAAACCTTCCTAC
TTCATTAAGAAAAGGAGAAAGGAAATGGGCTCCTCCAAAATTTCTGCCTCACAAATATGA
TGTGAAACTACAAAATGAAGATAAGATCATCAGTAACGTGCCAGCAGACAGCTTGATTTCG
TACAGAGCGCCACCAAATAAGGAGATAGTTTCGATACTTTATACGGCATAATGCATTACG
AGCTGGTACTGGTGAAGATGCACCTTGGGTCGTAGAAGATGAATTGGTGAAGAAATACTC
TCTGCCAGCAAGTTCACTGACTTTTTTACTTGATCCATACAAGTATATGACTCTCAACCC

FIGURE 1 (CONT'D)

TTCTACTAAGAGGAAGAATACTGGATCCCCAGACAGGAAGCCCTCAAAGAAATCCAAGAC
 AGACAACCTCTTCTCTTAGTTCACCACTAAATCCTAAGTTATGGTGTACGTACACTTGAA
 GAAGTCATTGAGTGGCTCGCCACTCAAAGTGAAGAACTCAAAGAATTCAAATCTCCTGA
 AGAACATCTAGAAGAAATGATGAAGATGATGTCGCCCAATAAGCTGCACACTAACTTTCA
 CATTCTTAAAAAAGGCCACCTGCCAAGAAACCAGGGAAGCACAGTGACAAGCCTTTGAA
 GGCAAAGGGCAGAAGCAAAGGCATCCTGAATGGACAGAAATCCACAGGGAATTCAAATC
 TCCCCAAAAAGGACTGAAGACTCCTAAAACCAAATGAAGCAGATGACTTTGTTGGATAT
 GGCCAAAGGCACGCAGAAGATGACACGAGCCCCACGGAATTCTGGGGGTACACCTAGGAC
 CTCTAGTAAACCTCATAAACATCTGCCTCCTGCAGCCCTACACCTCATTGCATACTACAA
 AGAAAACAAAGACAGGGAGGACAAGAGGAGCGCCCTGTCTGTGTTATCTCCAAACAGC
 TCGTCTTCTCTCTAGTGAAGATAGAGCTCGTCTCCAGAAGAATTGCGAAGTCTTGTTCA
 AAAACGCTATGAACCTCTAGAGCAAAAAAGAGGTGGGCTTCTATGTCTGAAGAACAAAG
 GAAAGAATATTTGAAAAAGAAACGGGAGGAGCTGAAAAAGAAGTTGAAGGAAAAAGCCAA
 AGAACGAAGAGAGAAAGAAATGCTTGAGAGATTAGAAAAACAGAAGCGGTATGAGGACCA
 AGAGTTAACTGGCAAAACCTTCCAGCATTTCAGATTGGTGGATACCCCTGAAGGGCTGCC
 CAACACGCTGTTTGGGGATGTGGCCATGGTGGTGAATTCTTGAGCTGTTATTCTGGGCT
 ACTTTTACCAGATGCTCAGTATCCTATTACTGCTGTGTCCCTTATGGAAGCCTTGAGTGC
 AGATAAGGGTGGCTTTTTATACCTTAACAGGGTGTGGTGCATCCTCTTACAGACCCTCCT
 ACAAGATGAGATAGCAGAAGACTATGGTGAATTGGGAATGAAGCTGTGCGAAATCCCCTT
 GACTCTGCATTCTGTTTCAGAGCTGGTGC GGCTCTGCTTGCAGATCTGATGTTTCAGGA
 GGAAAGCGAGGGCTCAGACAAGATGACAATAAGATTGAGCTGCATTTGAGGATAATGA
 GGTACAAGATGAGTTCTAGAAAAGCTGGAGACCTCTGAATTTTTTGGAGCTGACGTGAGA
 GGAGAAGCTACAGATCTTGACAGCACTGTGCCACCGGATCCTCATGACATACTCAGTGCA
 AGACCAATGGAGACCAGACAGCAGATGTCTGCAGAGTTGTGGAAGGAACGGCTTGCTGT
 GTTGAAGGAAGAAAATGATAAGAAGAGAGCAGAGAAAACAGAAACGGAAAGAAATGGAAGC
 CAAAAATAAGAAAATGGAAAAGTTGAGAATGGGTTAGGCAAAAATGATAGGAAAAAAGA
 AATTGTGAAGTTTGAGCCCAGTAGATACAGAAGCTGAAGACATGATTAGTGCTGTGAA
 GAGCAGAAGGTTGCTTGCCATTCAAGCTAAGAAGGAACGGGAAATCAGGAAAGAGAAAT
 GAAAGTGAAACTGGAACGC CAAGCTGAAGAAGAACGAATACGGAAGCACAAGCAGCTGC
 TGAGAAAGCTTTCCAGGAAGGGATTGCCAAGGCCAAACTAGTCATGCGCAGGACTCCTAT
 TGGCACAGATCGAAACCATAATAGATACTGGCTCTTCTCAGATGAAGTTCCAGGATTATT
 CATTGAAAAAGGCTGGGTACATGACAGCATTGACTACCGATTCAACCATCACTGCAAAGA
 CCACACAGTCTCTGGTGATGAGGATTACTGTCTCGCAGTAAGAAAGCAAACCTTAGGTAA
 AAATGCAAGCATGAACACACAACATGGAACAGCAACAGAAGTTGCTGTAGAGACAACCAC
 ACCCAAACAAGGACAGAACCTATGGTTTTTATGTGATAGTCAAAAGGAGCTGGATGAGTT
 GCTAAACTGTCTTACCCTCAGGGAATAAGAGAAAAGTCAACTTAAAGAGAGACTAGAGAA
 GAGGTACCAGGACATTATTCACTCTATTCTAGCACGGAAGCCAAATTTGGGTCTAAA
 ATCTTGTGATGGCAACCAGGAGCTTTTAAACTTCTTTCGTAGTGATCTCATTGAAGTTGC
 AACAAAGTTACAAAAAGGAGGACTTGGATATGTGGAAGAAACATCAGAATTTGAAGCCCG
 GGTCAATTTATTAGAGAAATTGAAGGATTTTGGTGAGTGTGTGATTGCCCTTCAGGCCAG
 TGTCTATAAGAAATTTCTCCAAGGCTTCATGGCTCCCAAGCAAAAGAGAAGAAAACTCCA
 AAGTGAAGATTGAGCAAAAACCTGAGGAAGTGGATGAAGAGAAGAAAATGGTAGAGGAAGC
 AAAGGTTGCATCTGCACTGGAGAAATGGAAGACAGCAATCCGGGAAGCTCAGACTTTCTC
 CAGGATGCACGTGCTGCTTGGGATGCTTGATGCCTGTATCAAGTGGGATATGTCCGCAGA
 AAATGCTAGGTGCAAAGTTTGTGAAAAGAAAGGTGAGGATGACAAATTGATCTTGTGTGA
 TGAGTGTAATAAAGCCTTCCACCTGTTTTGTCTGAGGCCGGCCCTCTATGAAGTACCAGA
 TGGTGAGTGGCAGTGCCAGCTTGCCAGCCCGCTACTGCCAGGCGCAACTCCCGTGGCAG
 GAACTATACTGAAGAGTCTGCTTCTGAGGACAGTGAAGATGATGAGAGTGATGAAGAGGA
 GGAGGAGGAAGAAGAGGAGGAGGAGGAAGAAGATTATGAGGTGGCTGGTTTGGCATTGAG
 ACCTCGAAAGACCATCCGGGGCAAGCACAGCGTCATCCCCCTGCAGCAAGGTGAGGCCG
 GCGCCCGGGTAAGAAGCCACACTCTACCAGGAGGTCTCAGCCCAAGGCACCACCTGTGGA
 TGATGCTGAGGTGGATGAGCTGGTGCTTCAGACCAAGCGGAGCTCCCGGAGGCAAAGCCT
 GGAGCTGCAGAAGTGTGAAGAGATCCTCCACAAGATCGTGAAGTACCGCTTCAGCTGGCC
 CTTCAGGGAGCCTGTGACCAGAGATGAGGCCGAGGACTACTATGATGTGATCACGCACCC

FIGURE 1 (CONT'D)

CATGGACTTTTCAGACAGTGCAGAACAAATGTTCTGTGGGAGCTACCGCTCTGTGCAGGA
GTTTTCTTACTGACATGAAGCAAGTGTTTACCAATGCTGAGGTTTACAACGCGGTGGCAG
CCATGTGCTAAGCTGCATGGTGAAGACAGAACAGTGTCTAGTGGCTCTGTTGCATAAACAC
CCTTCCTGGCCA CCCATATGTCCGCAGGAAGCGCAAGAAGTTTCCTGATAGGCTTGCTGA
AGATGAAGGGGACAGTGAAGCCAGAGGCCGTTGGACAGTCCAGGGGACGAAGACAGAAGAA
GTAGAGAGGCAGGGCCGTTGGTGA CAGTATCAGTGAGTGCCATACAGAATTGTGTATT CAC
CAGCATCATGAAACAGTTGTGGTCTTTTGAGTTGATCTTGGCAGAGTAAAGGGACGTGTC
CTGGAGCCATTCTGAATCTCCCCTTCTTTGTGACAGCTCCTCCCACCCCCCAAAAAAT
AAAAAAACCAAAAAACAAAAACAAAACTAAGGCATTCACTTAGAGACTGGAGTCC
TGCTTATAATCATGCATATAACCTTTACTTTGATGGATCTGGCCAGAGGGGTGTTGGAGC
CCAGCCCACCCA CATAACAGTCAAGCTCTTAGGGGAGCAGAAGAAAAGCAGGAAGAATTT
AAATGTTTTAATTTTTTTTTTTTAAATTGACTTTTCTAGTTATTA AAAAGTTGCTTGTTTCAGC
AGTGATATTGTATAAA GAACATCTTGTAAGATACTCCTGACATCTTGCTTTAGCACATGT
ACAGTACAGTTTCTATGATAATGTGTTTGCTCTAACTTCCCTGGCTTCTCCTTCAGCCCA
TCCACTCTCCTCTAGAGCAGTTGGGTTGGAGGCTCATTGAGGCAAGCAGCAACATTGGAG
GGGGAGCAGGGCAGTGCTGTGTCTGCTGCCTCCCATGCCCGTTCTGACCTCAGCCTTGGA
ACTCCTCAAGAACCTGAAGATTGAGAGCGGCAGAGAAGCTCTGAGAGCCCCTTCCCCCAC
AACAAATCTAGCTCTAGTTGTTATATTTAGGCAAACTTTGTAGTCTTCTTTCCCTTTTA
TGATGGATTTTGATAAAAGTACAAAACAGGGTTTTTCTTTTTTATCACCTTTGAATTTGG
AAATTTTGAGCACCAAGCTCTTCTGTACCTATTTAAAGTCCACCAAGGGGACTGCAGCT
CCTAGAACATGAGAATCAAGCCTCTTAATTTTAAACTGCGGAATGTGGCCTCTGCTTCCT
CCGTCTCTGCCCCAAGGACGACGAGGATTGCTCCAGGGCTGCTGGGTAGTTTACCGTCC
CTTCTATAGGCATGGAGTTGGCACTGACATCACAGCTTCATAACCCACCACCGCCAGCT
TCCCCTGCCTCCTACATCCAGTCTGTTCTTGTTTCATAGTGAGAATCCTGTGTTCCCACTT
CAGTGACACCTGAATTGTTTGTTGTTGTTTTTTTTTTTATTGTCTTCAAAGAGGAAGGG
CCCCATTAAAGGGTGAACCTTGTAATAAATTGGAATTTCAAATAAACCTCATGTACTTGTG
TTTATAAAGAAGAAACCA

Gene 828. >OTTHUMT00007006515 cDNA sequence

GAGCACTGTGGCTGGCATGCCCCAGTGTTTTGGATACCAATGCATAGGACTCCATAGTAA
T CGAATTTACCAGAGGCGAACGTCATGAGCATAGTGATCCCATTTGGGGGTTGATACAGCA
GAGACGTCATACTTGGAAATGGCTGCAGGTTT CAGAACCAGAATCCGTAGAAGCTAGCCCT
GTGGTAGTTGAGAAATCCAACAGTTATCCCCACCAGTTATATACCAGCAGCTCACATCAT
TCACACAGTTACATTGGTTTTGCCCTATGCGGACCATAATTATGGTGCTCGTCTCCTCCG
ACACCTCCGGCTTCCCCTCCTCCATCAGTCTTATTAGCAAAAATGAAGTAGGCATATTT
ACCACTCCTAATTTTGATGAAACTTCCAGTGCTACTACAATCAGCACATCTGAGGATGGA
AGTTATGGTACTGATGTAAACAGGTGCATATGTGGTTTTTACACATGATGATGGATACATG
ATCTGTTGTGACAAATGCAGCGTTTTGGCAACATATTGACTGCATGGGGATTGATAGGCAG
CATATTCCTGATACATATCTATGTGAACGTTGT CAGCCTAGGAATTTGGATAAAGAGAGG
GCAGTGCTACTACAA CGCCGGAAAAGGGAAAATATGT CAGATGGTGATAACAGTGCAACT
GAGAGTGGTGATGAGGTTCTGTGGAATTATATACTGCATTT CAGCATACTCCAACATCA
ATTACTTTAACTGCTTCAAGAGTTTCAAAGTTAATGATAAAAAGAAGGAAAAAAGCGGG
GAGAAAGAACACACATTTCAAATGTAAAAAGGCATTTCGTGAAGGATCTAGGAAGTCA
TCAAGAGTTAAGGGTT CAGCTCCAGAGATTGATCCTTCATCTGATGGTTCAAATTTTGGA
TGGGAGACAAAGATCAAAGCATGGATGGATCGATATGAAGAAGCAAATAACAACAGTAC
AGTGAGGGTGTT CAGAGGGAGGCACAAAGAATAGCTCTGAGATTAGGCAATGGAAATGAC
AAAAAGAGATGAATAAATCCGATTTGAATACCAACAATTTGCTCTTCAAACCTCCTGTA
GAGAGCCATATACAAAAGAATAAGAAAATTTCTTAAATCTGCAAAAGATTTGCCTCCTGAT
GCACTTATCATTGAATACAGAGGGAAGTTTATGCTGAGAGAACAGTTTGAAGCAAATGGG
TATTTCTTTAAAGACCATACCTTTTGTGTTATTCTACTCTAAATTT CATGGGCTAGAA
ATGTGTGTTGATGCAAGGACTTTTGGGAATGAGGCTCGATT CATCAGGCGGTCTTGTA
CCCAATGCAGAGGTGAGGCATGAAATTCAAGATGGAACCATACATCTTTATATTTATTCT
ATACACAGTATTCAAAGGGAACTGAAATTA CTATTGCCTTTGATTTTGACTATGGAAAT
TGTAAGTACAAGGTGGA CTGTGCATGCCTCAAAGAAAACCCAGAGTGCCCTGTTCTAAAA
CGTAGTTCTGAATCCATGGAAAATATCAATAGTGGTTATGAGACCAGACGGAAAAAAGGA

FIGURE 1 (CONT'D)

AAAAAAGACAAAGATATTTCAAAAAGAAAAAGATACACAAAATCAGAATATTACTTTGGAT
TGTGAAGGAACGACCAACAAAATGAAGAGCCCAGAACTAAACAAAGAAAGCTTTCTCCA
CTGAGACTATCAGTATCAAATAATCAGGAACCAGATTTTATTGATGATATAGAAGAAAAA
ACTCCTATTAGTAATGAAGTAGAAATGGAATCAGAGGAGCAGATTGCAGAAAGGAAAAGG
AAGATGACAAGAGAAGAAAGAAAAATGGAAGCAATTTTGCAAGCTTTTGCCAGACTTGAA
AA

Gene 829. >OTTHUMT00007006524 cDNA sequence

ATGGCAAAAATCTCCAGCCCTACAGAGACTGAGCGGTGCATTGAGTCCCTGATTGCTGTT
TTCCAGAAGTATGCTGGAAAGGATGGTTACAACCGCAATCTCTCCAAGACGGAGTTCCTA
AGCTTCATGAATACAGAGCTGGCTGCCTTTACAAAGAACAGAAAGGACCCCGGTGTCCTT
GACCACATGAAGAACTGGATGTCAGCAGTGTGAGGAGTGTAGATTTCCCAAAATTTCTT
AATCTGATTGGTGGCCTAGCTGTGGCTTGCCATGACTCCTTCCTCAAGGCTGTCCCCTCC
CAGAAGTAG

Gene 830. >OTTHUMT00007006535 cDNA sequence

ATGGCAGGCCTGATGACCATAGTAACCAGCCTTCTGTTCCCTTGGTGTCTGTGCCCCACCAC
ATCATCCCTACGGGCTCTGTGGTCATCCCTCTCCCTGCTGCATGTTCTTTGTTTCCAAG
AGAATTCCTGAGAACCAGAGTGGTCAGCTACCAGCTGTCCAGCAGGAGCACATGCCTCAAG
GCAGGAGTGATCTTCAACCAAGAAGGGCCAGCAGTTCTGTGGCGACCCCAAGCAGGAG
TGGGTCCAGAGGTACATGAAGAACCTGGACGCCAAGCAGAAGAAGGCTTCCCCTAGGGCC
AGGGCAGTGGCTGTCAAGGGCCCTGTCCAGAGATATCCTGGCAACCAAAACCACTGCTAA

Gene 831. >OTTHUMT00007006536 cDNA sequence

GCGCGATGGCGGCGGCTGCCGCGAGACCCCGAAGTCCTTCGGGAATGCGGTTGCAAGG
GCATCCGGACCTGTCTGATCTGCGAGCGGCAGCGCGCAGTGACCCGCCCTGGGAGCTGC
CCCCAGCGAAACATACCGTTTTCATTTACTGCTCCGACACCGGCTGGGCGGTGGGCACAG
AGGAGTCTGACTTTGAGGGCTGGGCCTTCCCCTTCCCAGGAGTGATGCTGATCGAGGACT
TTGTGACCCGGGAGGAAGAAGCCGAGTTGGTGCAGGCTCATGGACCGTGACCCCTGGAAGC
TCTCCAGTCTGGACGGAGGAAGCAGGACTATGGCCCCAAAGTCAACTTTTCGGAAACAGA
AGCTAAAGACCGAGGGCTTCTGCGGCCTCCCCAGCTTCAGCCGGGAGGTGGTGCAGGAGGA
TGGGCCTCTACCCGGGGCTGGAGGGCTTCCGGCCCGTCGAGCAGTGCAACCTGGACTACT
GCCCCGAGCGGGGCTCTGCCATTGACCCCCACCTGGACGACGCTGGCTGTGGGGGGAGC
GGCTGGTCAGCCTCAACCTCCTGTCCCCACCGTGCTGTCCATGTGTGGGAGGCGCCCCG
GGAGCCTGCTCCTCTGCTCGGCCCGTCGGCTGCCCGGAGGCCTTGGTGGACAGCGTGA
TAGCACCCAGCCGGTGGTGCTATGCCAGGAGGTGGAGGTGGCCATCCCCTTACCCGCCC
GCTCCCTGCTGGTCTCAACGGGGCGGCACGGCACCACTGGAAGCATGCCATCCACCGCA
GACACATCGAGGCCCGCGCGTCTGCGTCACTTTCCGGGAGCTGTGGCTGAGTTTGGCC
CTGGAGGGAGGCAGCAAGAGCTGGGCCAGGAACTGCTGCGGATCGCCCTCTCCTTCCAGG
GAAGACCCGTGTGAACCGCTCCTTGGCTCCAGACTTGACTGATCCCGGGATTGAAATGA
GGAGCACAGAACAGGGCCTCCTGCAACTCACGGGGTTTCAAGAGAAGATGGCTGACCCCT
GATGCTGTGAGCAGTGTGAGCCCTGCCAGGAGCAGGTTTGTATGGGAACGTACCTCCAG
GCAGCCCCCTTCCACCTGGACCGTGGCCACACTTTTGTGGTTATTTAGTTTGTACAGTC
TTGGGGACATGGGATCATTTGAGCTTAAAAATACTGGGGCCGGGCACAGTGGCTCACA
CCTGTAATCCTAACACTTTGGGAGGCTGAGGTGGGCGGATCACTTGATGCCAGGAGTTG
AGACCAGCCTGGCCAACAACGGTGAAAACCCGTCTCTACAAAACTACAAAAATTAGCCGG
GTGTGGTGAATCACAGCCGTAATCCCAGCTACTCGGGAGGCTAAGGTGGGAGAATTGCTT
GAACCTGGGAGGCGGAGGTTGCAGTGAGCCAAGATCACGCCACTGCACTCCAGCCTCGGT
GACAGAGCAAGACTGTTTTGAAAAAATAAATGGGAACATTTTAAATGATTTTCAAC
TTTATTATGCATCTATTTTCATGGGGTTTCCCAGATATCTCACTGTCCAGTCCCTTCATTT
GGGGAATGTGTTGGATTAGGGAAACAGGGTTGAAGATTTGAAGTTTAGACTAAAGAGCTGG
GAACAGCTTCAGAGTCAGGCTCAGCCTGACTCATGCTTGACACCCCCACGCCCAGGGAGG
GTTGGGGGATGTGAGGAGGGCAGGGAAATCTGAGAGCCTCCTTCCAGCCCCATAACGCTG
TTAACAAGTAGGAAAAATTAAAGCTCCCGGCCAGGCGCGGTGACTCACACCTGTAATCCG
AGTACTTTGCGGGGCTCAGGTGGGAGGATTGCTTGAGGCCAGCCTGGGCAACATAGTGAG
ACCCCATCTCTACAAAAATAAACAATTAGCTGGGCGTCTGGGCATGGTGGCACACAC
CTGTAGTCCCAGCTACTCGAAAGGCTGAGGCGGGAGGATGGCTTTACCACCATGTCAAGG

FIGURE 1 (CONT'D)

CTGCAGTGAGCTCATGATCATACCACTGCACTTAACTTGGCAACAGAGCAAGACCCTGTC
CCTAAAATAAATAAAAGGAAAAACAAAAAA

Gene 832. >OTTHUMT00007006539 cDNA sequence

ATGATGGGCCTCTCCTTGGCCTCTGCTGTGCTCCTGGCCTCCCTCCTGAGTCTCCACCTT
GGAAGTCCACACGTGGGAGTGACATATCCAAGACCTGCTGCTTCCAATACAGCCACAAG
CCCCTTCCCTGGACCTGGGTGCGAAGCTATGAATTACCAGTAACAGCTGCTCCAGCGG
GCTGTGATATTCACTACCAAAGAGGCAAGAAAGTCTGTACCCATCCAAGGAAAAAATGG
GTGCAAAAATACATTTCTTTACTGAAAACCTCCGAAACAATTGTGA

Gene 833. >OTTHUMT00007008148 cDNA sequence

TTAGATCCTTCTGCGGATACATGGGACCTCTCCTCACCTTTAATATCATTATGGATAAAC
AGGTTTTACATTTATCTGGGCTTTGCTGTTAGCATTAGCCTTTGGATTTGTGTCCAGATT
GT CATCGAGATGCAGGGCAGGAACCTACAGGAAAAATCTGTTCCAAAAGCAGCTCAGGAT
TTGATGACAAATGGTTATGTCTCCCTTCGAGAGAAAGACATCTTTGTGTCTGGAGTGAAG
ATTTTTTATGGTTCTCAGACTGGAAACAGCAAAGTTAAGAATTCTTGCTGAAGCAGTTACG
TCCCTGGATCTGCCTGTGGCCATTATTAATCTAAAAGAATATGATCCAGATGATCATCTG
ATAGAAGAGGTGACTAGTAAAAATGTCTGTGTCTTCTGGTTGCGACATACACTGACGGC
CTACCAACCGAAAGTGCAGAGTGGTTCTGCAAATGGTTAGAGGAAGCATCCATTGATTTT
CGATTTGGCAAACTTACCTGAAGGGTATGAGAGATGCGGTATTTGGCCTGGGAAATTCT
GCCTATGCTAGCCACTTCAACAAGGTTGGCAAAAATGTTGACAAGTGGCTCTGGATGCTT
GGCGTGCATCGTGTGATGAGTCGAGGGGAGGGCGACTGCGACGTGGTTAAAAGCAAGCAC
GGCAGCATTGAGGCCAACTTCAGAGCATGGAAGACCAAGTTCATCTCCAGCTGCAGGCA
CTTCAGAAAGGGGAGAGAAAGAAGTCTGTGGCGGCCACTGCAAGAAAGGCAAATGTGAA
TCTCACCAACATGGCTCAGAGGAGAGGGAGGAAGGATCTCAAGAGCAGGACGAATTGCAT
CACAGAGACACCAAGGAGGAAGAACCCTTCGAGAGCTCCAGTGAAGAAGAGTTTGGTGGT
GAGGACCATCAGAGCCTAAATTTCCATTGTTGATGTTGAAGATTTGGGCAAAATTATGGAT
CACGTGAAGAAAGAAAAGAGAGAAAAGGAACAGCAGGAAGAGAAAGTCTGGTTTGTTCAGG
AACATGGGGAGGAATGAAGATGGTGAAAGAAGAGCTATGATAACTCCTGCTCTCCGAGAA
GCCCTTACTAAACAAGGTTATCAGTTGATTGGGAGCCACTCAGGGGTGAAGCTTTGCAGG
TTTTTTTTTGTTCGATGCTCCGAGGGAGAGGAGCTTGTACAAACACACATTCTATGGA
ATTGAGAGCCATCGCTGCATGGAAACCACCCCGAGCTTGGCGTGTGCTAATAAATGTGTC
TTCTGTTGGTGGCACCACAACAACCCTGTGGGCACTGAATGGCGGTAGAAGATGGACCAG
CCTGAAATGATCTTGAAGGAAGCCATTGAAAACCATCAGAACATGATTAAGCAGTTTAAA
GGAGTACCGGGCGTCAAAGCAGAACGCTTTGAAGAAGGAATGACGGTAAAGCACTGTGCA
TTGTCCCTCGTGGGAGAACCAATAATGTACCCAGAGATCAACAGGTTTTTTGAAGCTACTC
CACCAGTGTAATCTCCAGCTTCTGGTCAAAAATGCACAATTTCTGCGGAAATCAGG
AACCTCGAGCCAGTTACTCAGCTGTATGTGAGTGTGGATGCCAGTACCAAAGACAGCCTG
AAGAAAATCGACCGCCCACTCTTCAAGGATTTCTGGCAGCAATTCTTTGACAGTTTAAAA
GCCTTGGCAGTCAAGCAACAACGAACTGTCTACAGACTGATGCTCGTGAAAGCATGGAAC
GTGGACGAGCTCCAGGCCTACGCGCAGCTCGTGTCCCTGGGGAATCCTGACTTCATCGAA
GTGAAGGGCGTTACCTACTGCAGAGAAAGTTTCAAGCAGTCTTACCATGGCCCATGTG
CCCTGGCATGAGGAAGTGGTACAGTTTGTCCGCGAGCTGGTGGATCTGATCCCCGAATAT
GAAATTGCATGTGAAACAGAACTCTAATTGCCTCCTGATAGCACACAGAAAGTTTAAA
ATTGGTGGTGAATGGTGGACATGGATCGATTATAACCGCTTCCAGGAGCTCATCCAGGAA
TATGAAGATAGTGGTGGATCAAAAACGTTTCAAGCGAAAGGATTATATGGCCAGAACTCCT
CACTGGGCATTATTTGGTGCCAATGAAAGAAGCTTTGATCCCAAGGACACAAGACATCAG
AGAAAGAACAAATCAAAGGCTATTTCTGGATGT

Gene 834. >OTTHUMT00007006547 cDNA sequence

ATGATGATGATAAAGGCTGTGACCATAGATAAACTGCAGGGAAGTTCTGTTACTGTATCT
ACCGAAGATGGTTTGTGAAAGCCAAGTATCTTTATACAGAATCATCATTTCTGTCTTCT
GCTGCTGGGGATATTACATTAGGAAGTGTTCATAATATAACATTACAAAGCAAGATGGGT
AACATCACAGTATCGTCTTCTGGATGTCTAAAAGCCTCAACTAATCAGGGTGCCATAGAT
GTTTATGTGAGCCAACTGGGGAAAGTGGAATTGAAATCCATAAAGAACGCGGCTCCTCA
CCAGTAACGGAAACAAAGCTGGATGGAGAATGACTTTGACGAGTTGAGAGAAGGCTTCAGA
CAATCAAACACTCTGAGCTAAAGGAGGAAGTTTGA

FIGURE 1 (CONT'D)

Gene 835. >OTTHUMT00007008151 cDNA sequence

CAGTGTAAGAACTGGCCAAAGTCCAAGGCAGAAAGTGGCCTGCATCGCAGTGTACGAAACA
GACGTGTTTGTGTCGTCGGAACCGAGAGAGGATGCGCTTTTGTTAATGCCAGGACGGATTTT
CAGAAAGATTTTGCAAAATACTGTAGGCGTTTTAATTTTATCCTTTAGGGACTGTGTGAG
GTGAAACCTCCCTGCCCTGTGAACGGGATGCAGGTCCACTCGGGCGAAACGGAAATACTC
AGGAAGGCAGTGGAGGACTATTTCTGCTTTTGT CATGGTAAAGCCTTAGGGACAACAGTG
ATGGTGTCTGTTCCCTATGAGAAGATGCTGCGAGACCAGTCGGCTGTGGTAGTGCAGGGG
CTTCCGGAAGGCGTTGCCCTTTCAACACCCTGAGAATTACGACCTTGCAACCCTGAAATGG
ATTTTGGAGAAACAAAGCAGGGATTTTCATTCATCATAAATAGGGGCTGGTGTGTGTTTTTT
CATTCCTCTACAGGTGGCCCTGGGATGGTAACAGATGCGGAGAGATCCATAGTATCACCA
AGTGAAAGCTGCGGCCCCATCAATGTGAAAACCTGAACCCATGGAAGATTCTGGCATTTC
CTGAAAGCAGAAGCTGTCTCAGTCAAGAAAGAATCAGAAGATCCTAATTACTATCAATAT
AATATGCAA

Gene 836. >OTTHUMT00007008153 cDNA sequence

AGGGATGTCCTTCCTGAGATCCGTGCTATCTGCATTGAGGAAATTGGGTGTTGGATGCAA
AGCTACAGCACGTCTTTCCTCACCGACAGCTATTTAAAATATATTGGTTGGACTCTGCAT
GATAAGCACCGAGAAGTCCGCGTGAAGTGCCTGAAGGCTCTGAAAGGGCTGTACGGTAAC
CGGGACCTGACCGCACGCCTGGAGCTCTTCACTGGCCGCTTCAAGGACTGGATGGTTTTCC
ATGATCGTGGACAGAGAGTACAGTGTGGCAGTGGAGGCCGTCAGATTACTGATACTTATC
CTTAAGAACATGGAAGGGGTGCTGATGGACGTGGACTGTGAGAGCGTCTACCCCATTTGTG
TAGGCCTCTAATTGAGGCCTGGCCTCTGCTGTGGGTGAATTTCTGTACTGGAAACTTTTC
TACCCTGAGTGCAGAGATAAGAACGATGGGTGGAAGAGAGCAACGCCAGAGCCAGGCGCC
CAGAGGACTTTCTTCCAGCTTCTGCTGTCTCTTCTTTGTGGAGAGCAAGCTCCACGACCAC
GCTGCTTACTTAGTAGACAACCTGTGGGACTGTGCAGGGACTCAGCTGAAGGACTGGGAG
GGTCTGACAAGCCTGCTGCTGGAGAAGGACCAGAGC

Gene 837. >OTTHUMT00007006552 cDNA sequence

CTCAAACACCGCCTGCTAAAAATACCCGACTGGAGGAGCATAAAAGCGCAGCCGAGCCCA
GCGCCCCGCACTTTTCTGAGCAGACGTCCAGAGCAGAGTCAGCCAGCATGACCGAGCGCC
GCGTCCCCTTCTCGCTCCTGCGGGGCCCCAGCTGGGACCCCTTCCGCGACTGGTACCCGC
ATAGCCGCCTCTTCGACACAGGCCTTCCGGCTGCCCCGGCTGCCGGAGGAGTGGTTCGAGT
GGTTAGGCGGCAGCAGCTGGCCAGGCTACGTGCGCCCCCTGCCCCCGCCGCCATCGAGA
GCCCCGAGTGGCCGCGCCCGCCTACAGCCGCGCGCTCAGCCGGCAACTCAGCAGCGGGG
TCTCGGAGATCCGGCACACTGCGGACCGCTGGCGCGTGTCCCTGGATGTCAACCACTTCG
CCCCGGACGAGCTGACGGTCAAGACCAAGGATGGCGTGGTGGAGATCACCGGCAAGCAG
AGGAGCGGCAGGACGAGCATGGCTACATCTCCCGGTGCTTCACGCGGAAATACACGCTGC
CCCCCGGTGTGGACCCACCCAAGTTTCTCCTCCTGTCCTGAGGGCACACTGACCG
TGGAGGCCCCCATGCCCAAGCTAGCCACGCAGTCCAACGAGATCACCATCCCAGTCACCT
TCGAGTCGCGGGCCAGCTTGGGGGCCCAGAAGCTGCAAAATCCGATGAGACTGCCGCCA
AGTAAAGCCTTAGCCCGGATGCCACCCCTGCTGCCGCCACTGGCTGTGCCTCCCCCGCC
ACCTGTGTGTTCTTTTGATACATTTATCTTCTGTTTTTCTCAAATAAAGTTCAAAGCAAC
CACCTGT

Gene 838. >OTTHUMT00007006555 cDNA sequence

GAGGCGGCTGCCTGCTGCTCTGCAGGTACCATGGAGCTGAGCTATAGGCTCTTCATCTGC
CTCCTGCTCTGGGGTAGTACTGAGCTGTGCTACCCCAACCCCTCTGGCTCTTGAGGGT
GGAGCCAGCCATCCTGAGACGTCCGTACAGCCCGTACTGGTGGAGTGTGAGGAGCCACT
CTGATGGTCATGGTCAGCAAAGACCTTTTGGCACCGGGAAGCTCATCAGGGCTGCTGAC
CTCACCTTGGGCCCAGAGGCCTGTGAGCCTCTGGTCTCCATGGACACAGAAGATGTGGTC
AGGTTTGTAGGTTGGACTCCACGAGTGTGGCAACAGCATGCAGGTAACCTGACGATGCCCTG
GTGTACAGCACCTTCTGCTCCATGACCCCCGCCCCGTGGGAAACCTGTCCATCGTGAGG
ACTAACC CGCAGAGATTCCCATCGAGTGCCGCTACCCAGGCAGGGCAATGTGAGCAGC
CAGGCCATCCTGCCCACCTGGTTGCCCTTCAGGACCACGGTGTTCCTCAGAGGAGAAGCTG
ACTTTCTCTCTGCGTCTGATGGAGGAGAACTGGAACGCTGAGAAGAGGTCCCCACCTTC
CACCTGGGAGATGCAGCCCACCTCCAGGCAGAAATCCACACTGGCAGCCACGTGCCACTG
CGGTTGTTTGTGGACCACTGCGTGGCCACACCGACACCAGACCAGAATGCCTCCCCTTAT

FIGURE 1 (CONT'D)

CACACCATCGTGGACTTCCATGGCTGTCTTGTCGACGGTCTCACTGATGCCTCTTCTGCA
TTCAAAGTTCCTCGACCCGGGCCAGATACACTCCAGTTCACAGTGGATGTCTTCCACTTT
GCTAATGACTCCAGAAACATGATATACATCACCTGCCACCTGAAGGTCAACCTAGCTGAG
CAGGACCCAGATGAACTCAACAAGGCCTGTTCTTTCAGCAAGCCTTCCAACAGCTGGTTC
CCAGTGGAAGGCTCGGCTGACATCTGTCAATGCTGTAACAAGGTGACTGTGGCACTCCA
AGCCATTCCAGGAGGCAGCCTCATGTGATGAGCCAGTGGTCCAGGTCTGCTTCCCGTAAC
CGCAGGCATGTGACAGAAGAAGCAGATGTACCGTGGGGCCACTGATCTTCTTGACAGG
AGGGGTGACCATGAAGTAGAGCAGTGGGCTTTGCCTTCTGACACCTCAGTGGTGCTGCTG
GGCGTAGGCCTGGCTGTGGTGGTGTCCCTGACTCTGACTGCTGTTATCCTGGTTCTCACC
AGGAGGTGTGCGACTGCCTCCCACCTGTGTCTGCTTCCGAATAAAAGAAGAAA

Gene 839. >OTTHUMT00007006556 cDNA sequence

ATGGACCAGTACCATCTGTGGCCATTAGGAACCAGGCTGCACAGCAGGAGCCCAGCCTC
ATCCCGCTCCAGACACCGGAGAGGCCAGCAAAGAAAATAAGGTATTCTGGCATTCTCCTG
CAGTTTTTCATTTGCTACGTGGACAGAAGGGGGTGAGGAAGAAGAAGAGATGTGTATCAT
TCCAGTTCTTCAACTCCATTGGCAGCAGACAAGGAGTCCCAGGGAGAAAAGGCAGATACA
ACCCCAAGGAAGAAACAAACTCGAATTCTCAGTCTACACCTGGCAGCTCTGGGCAGCGT
AAGCGGAAAGTTGAGTGTGCTGCTTCTCGGCGAGGGGAACAGCTGACCTTGCCTCCACCT
CCCCAGCTTGGCTATTTCGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCATTA
CAGTGGTTCAACCAGGCCTTGGAGGACAAGAGCGCTGCCTCGAACTCTGTCACTGAGACC
CCACCTATCACTCAGCCTTCATTTACCTTTACCTTGCCTGCTGCTGCACCTGCCTCCCCA
CCCACCTCCCTCCTGGCCCCAAGCACCAACCCACTGTTAGAGAGCTTGAAGAAGATGCAG
ACTCCCCCGAGCCTGCCACCTTGCCTTTCGAGGGCTGCTGGTGTTCCTGGGCCAGGCC
TTCACGGCACTGCGCGCGCACACCTCTTTATCAGACTCTGCTGGAGCAGCAACCACTGAG
GCCCTCTCACCTCCAAAGACACCCAACCTCCTACCCCGCTGGGTTTATCACAGTCAGGG
CCGCCAGGGCTGCTCCCCAGCCCCCTCCTTTGACTCCAACCCCGGACCACTTTGCTGGGG
CTGATCCCTGCTCCATCCATGGTACCAGCCACTGACACCAAGGCACCTCCAACCTTTCAG
GCAGAGACGACTACCAACCCCCAAGCCACATCTGCCCCGTCCCCCGCCCCCAAGCAAAGC
TTCCTGTTTGGAAACACAGAACACCTCACCTTCCAGCCCTGCCGCCCTGCTGCATCTTCA
GCATCTCCCATGTTCAAGCCCATTTTTCACGGCTCCACCCAAGAGTGAGAAGGAAGGCCCC
ACACCGCCTGGCCCTTCAGTCTCAGCCACAGCGCCCTCCAGCTCCTCCCTCCCCACGACC
ACCAGCACCAAGCCCCGACCTTCCAGCCTGTCTTTAGCAGCATGGGGCCACCTGCATCT
GTGCCCTTGCCTGCTCCCTTCTTCAAGCAGACAACCTACTCCCGCCACTGCTCCCAACCA
ACTGCCCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTGGCTCCCATCACCTCT
GCCAGTCCATCCACAGACTCTGCTTTCGAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTG
AGCAGCAGCAGTGTGAGTACCAGACAGCAGCCGCACTGCCGCTCACAGCCTTTCTCTC
TTCGGGGCGCCCCAGGCCTCTGCTGCCAGCTTCAACCCGGCCATGGGCTCCATATTCCAG
TTTGGCAAACCTCCTGCCTTGGCCACAACACCACAGTCACCACTTTCAGCCAGTCCCTG
CCCACTGCCGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTTAGTGGTTTTTGGCAGC
ACCTTCGCCACCTCCGCCCCGGCCACCAGCAGCCAGCCCACTCTGACGTTTCACTAACACG
AGCACCCCCACGTTCAACATTCCCTTTGGCTCAAGCGCCAAGTCCCCGCTCCCATCATAT
CCGGGAGCCAACCCCCAGCCCGCATTTGGGGCCGCTGAGGGGCAGCCACCGGGGGCCGCC
AAGCCAGCCCTTACCCCCAGCTTTGGCAGCTCTTTCACTTTTGGAAACTCTGCAGCCCCG
GCTGCTGCACCCACACCTGCACCTCCGTCCATGATCAAGATCGTGCCTGCGCACGTGCCT
ACGCCCATCAGCCTACCTTTGGCGGTGCCACGCACTCGGCGTTTGGGTGAAAGCCACG
GCTTCGGCCTTTCGGCGCTCCCGCCAGCTCACAGCCCGCCTTTGGCGGCTCCACTGCTGTC
TTCTCCTTCGGTGCAGCCACCAGCTCTGGCTTTGGAGCCACCACCCAGACCGCCAGCAGC
GGGAGCAGCAGCTCGGTGTTTGGCAGCAACACCATCACCTTTCAGTTTGGGGGTTTCG
GCAGCCCCGCTGGCAGTGGGAGCTTTGGGATCAACGTGGCCACCCAGGCTCCAGCGCC
ACCACCGGAGCTTTAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCCACCCCC
TTCGAGGGGGCTTAGGTGAGAAGCCCTGGGCACCAACCGGCCAGAGCACACCGTTTGCC
TTCAACGTGGGCAGCAAACTGAGAGCAAACTGTGTTTGGAAACCGCCACCCCCACCTTT
GGTCTGAACACCCCTGCGCCTGGAGTGGGCACATCAGGCAGCAGCCTCTCCTTTGGGGCA
TCCTCAGCACCCGCCAAGGCTTTGTTGGTGTGACCTTTCTCGGCGGCCCTTCATTT
TCCATTGGTGCGGGATCCAAGACCCTAGGGGCTCGACAGCGACTGCAGGCCGAAGGCAG

FIGURE 1 (CONT'D)

CACACCCGCAAAAAGTAG

Gene 840. >OTTHUMT00006006400 cDNA sequence

CACCACCAGCCCTGAAGCTGTCTGTGAACGAACTCTGGTGGTGAACCCCTGGGGAGAATG
TGACGGTGCAGTGTCTGCTGACAGGCGGTGATCCCTCCCCAGCTGCAGTGGTCCCATG
GGCCTGGCCCACTGCCCCTGGGTGCTCTGGCCCAGGGTGGCACCCCTCAGCATCCCTTCAG
TGCAGGCCCCGGGACTCTGGCTACTACAACCTGCACAGCCACCAACAATGTGGGCAACCCTG
CCAAGAAGACTGTCAACCTGCTGGTGCATCCATGAAGAACGCTACATTCCAGATCACTC
CTGACGTGATCAAAGAGAGTGAGAACATCCAGCTGGGCCAGGACCTGAAGCTATCGTGCC
ACGTGGATGCAGTGCCCCAGGAGAAGGTGACCTACCAGTGGTTCAAGAATGGCAAGCCGG
CACGCATGTCCAAGCGGTGCTGGTGACCCGCAATGATCCTGAGCTGCCCGCAGTCACCA
GCAGCCTAGAGCTCATTGACCTGCACTTCAGTGACTATGGCACCTACCTGTGCATGGCTT
CTTTCCAGGGGACCCGTGCCCCGACCTCAGCGTGCAGGTCAACATCTCCTCTGAGACAG
GTGTGCCGCCACCATCAGTGTGCCCAAGGGTAGGGCCGTGGTGACCGTGCAGGAGGGAT
CGCCTGCCGAGCTGCAATGCGAGGTGCGGGGCAAGCCGCGGCCGAGTGCTCTGGTCCC
GCGTGGACAAGGAGGTGCACTGCTGCCCTCGGGGCTGCCCCTGGAGGAGACTCCGGACG
GGAAGCTGCGGTGGAGCGAGTGAGCCGAGACATGAGCGGGACCTACCGCTGCCAGACGG
CCCGCTATAATGGCTTCAACGTGCGCCCCCGTGAGGCCAGGTGCAGCTGAACGTGCAGT
GCCCCAGTCCCGCCGGAGGTGGAGCCAGTTCCAGGACGTGCGCCAGGCGCTGGGCCGG
CCCGTGCTCCTGCGCTGCTGCTGCTGCGAGGCAGCCCCAGCGCATCGCCTCGGCTGTG
TGGCGTTTTCAAAGGGCAGCTGCTGCCGCCGCCGCTGTTGTTCCCGCCGCCCGGAGGCG
CCGGATCACGCGGAGCTGCGCCTCGACGCCGTAACTCGCGACAGCAGCGGCAGCTACGAG
TGCAGCGTCTCCAACGATGTGGGCTCGGCTGCCTGCCTCTTCCAGGTCTCCGGCTGTCCA
AGAACTACTCCTACGTGCTGCAGTGGACTCAGAGGGAGCCCGACGCTGTGACCCCTGTGC
TCAACTACAGACTCAGCATCCGCCAGTTGAACCAGCACAAATGCGGTGGTCAAGGCCATCC
CGGTCCGGCGTGTGGAGAAGGGGCGAGCTGCTGGAGTACATCCTGACCGATCTCCGTGTGC
CCCACAGCTATGAGGTCCGCCTCACACCTTATACCTTTCGGGGCTGGTGACATGGCCT
CCCGCATCATCCACTACACAGAGCCCATCAACTCTCCGAACCTTTAGACAACACCTGCC
ACTTTGAGGATGAGAAGATCTGTGGCTATACCCAGGACCTGACAGACAACCTTTGACTGGA
CGCGGCAGAATGCCCTCACCCAGAACCCCAACGCTCCCCCAACACTGGTCCCCCACC
ACATAAGTGGCACCCCTGAGGGCTACTACATGTTTCATCGAGACATCGAGGCCTCGGGAGC
TGGGGGACCGTGCAAGGTTAGTGAGTCCCCTCTACAATGCCAGCGCCAAGTTCTACTGTG
TCTCCTTCTTCTACCATGTACGGGAAACACATCGGCTCCCTCAACCTCCTGGTGCAGT
CCCGGAACAAAGGGGCTCTGGACACGCACGCCTGGTCTCTCAGTGGCAATAAGGGCAATG
TGTGGCAGCAGGCCCATGTGCCCATCAGCCCCAGTGGGCCCTTCCAGATTATTTTTGAGG
GGGTTTCAGGCCCCGGGCTACCTGGGGGATATTGCCATAGATGACGTCACTGAAGAAGG
GGGAGTGTCCCCGGAAGCAGACGGATCCCAATAAAGTGGTGGTGATGCCGGGCAGTGGAG
CCCCCTGCCAGTCCAGCCACAGCTGTGGGGGCCCATGGCCATCTTCTCTTGGCGTTGC
AGAGATGATGAGAGCTGTGTGGCCACCCCCCAACCTTGCCCCCGGCACACCAAAGTGTC
CACATTGTACCAAAGACTGACCCCCGCCAGCTGGGGTGCCAGGGGCAGGGCCGGCCCGC
CAGGGAGGGGGCCTGCATTGGCTGCAAGGATGAGCAGAGAACAAGGACAGAGGCCAGGCA
CTGAGGCCCTGGAGACAGCTGTTCCACTTGACACACGCACACACTCATGCTCACACACA
CAGAGATATATTAAAGCACAAGTTTCTATCTGA

Gene 841. >OTTHUMT00007006557 cDNA sequence

ATGGGGGAAGCGCGTTAAACCAGGGAGTCTGGAAGGGGACGACGCCCCCGGCCAGTCC
CTGTACGAGCGGTTAAGTCAGAGGATGCTGGACATCTCGGGGACCGGGGCGTGCTGAAG
GACGTATCCGAGAAGGAGCTGGAGACCTAGTGGCGCCTGATGCTTCGGTGCTAAAATAC
TCGGGATACCTGGAACACATGGAACAGACCTTCGATTCTAATTACTTTAGGAAAACCTCCT
CGGCTAATGAAACTTGGAGAGATTACACTGTGGGGCATGGAGCTGGGCCTTCTGAGCATG
CGGAGAGGAGAGCTGGCCAGGTTTCTGTTCAAACCGAACTACGCCTATGGAACGCTGGGC
TGCCCTCCCTTGATCCCCCAACACCACTGTCCTGTTTGAGATTGAGCTGCTTGACTTC
CTGGAAGTGTGCTGAGTCAGACAAGTTTGTGCTCTCTCAGCTGAGCAGCAAGACCAATTT
CCACTTCAGAAGGTCTGAAAGTGGCAGCTACGGAACGGGAGTTTGGCAACTACCTTTTC
CGCCAGAATCGTTTCTATGATGCCAAAGTGAGATATAAAGGGCCCTGTTGCTTCTGCGC
CGCGCATCAGCACCCCTGAAGAGCAGCACCTGGTGGAGGCCGCAAGCTTCTGTTCTC

FIGURE 1 (CONT'D)

CTGAACCTGTCTTTACATACCTGAAGCTAGACCGACCCACCATAGCCCTGTGCTATGGA
GAGCAGGCTTTGATCATTGACCAAAAGAATGCCAAGGCCCTCTTCAGGTGTGGACAGGAC
AGTCTGGCGGTGTTGCCAGAGTGTAGGAGGCCGCCCTCTACAGCTGGGTTTTTGA
GTGCTCGGCCGTGCGCTGCACCAGCAGTTCAGCAAGCTGTTACAGGGACTATGTGGAT
AAAGAGAAAGAAATGTGGCACCGCATGTTTCGCGCCCTGTGGCGATGTTTCTACAGCAGGA
GAAAGTTGA

Gene 842. >OTTHUMT00006006402 cDNA sequence

TTCCCCCTGTCTGAAGAAGGGGAGCAGGTTTCTGAGTACTCCGGGGCGCGGTGCCTCCCC
CTAAACGCGAATGGAACCTTTTGGGAAATGCCCCCTCCCCAGCCCCTTGTCTGGGGCAACT
TCCTTGTCTCTTCTCCCCACCGGTGTTGGGGAGTTCCTTGTCTCCACTCCCAACCAAG
AGCCACAAGTACATTATCTATGCCCAGGCGAGTCCCTATGCCCAGGCTAGGAGAGCCGCA
CTTCTTCTACAGCTGACACGTTTGGTTTTTGGAGGGGAAAGGGGAGCTGTAGCTGAATC
AGTAATGGAATTGATGAACCTGTGATGTGACTCCTGGGAGTAGTTTGCAATCACCATTG
GCCCCAAAGGAGCCATCTACGTGCTCAGTGGGGTCTAGTAAAGGATAATATTAATTCTT

Gene 843. >OTTHUMT00007006563 cDNA sequence

GGGAAGAGGAGGCGCGAGAATGGAGGTGGAGGCCGTCTGTGGTGGCGGGCGAGGTGGA
GGCCAGGACTCTGACCCTGCCCCCTGCCTTCAGCAAGGCCCCCGGCAGCGCCGGCCACTA
CGAACTGCCGTGGGTTGAAAAATATAGGCCAGTAAAGCTGAATGAAATTGTGCGGAATGA
AGACACCGTGAGCAGGCTAGAGGTCTTTGCAAGGGAAGGAAATGTGCCCAACATCATCAT
TGCGGGCCCTCCAGGAACCGGCAAGACCACAAGCATTCTGTGCTTGGCCCCGGGCCCTGCT
GGGCCAGCACTCAAAGATGCCATGTTGGAACCTCAATGCTTCAAATGACAGGGGCATTGA
CGTTGTGAGGAATAAAATTAATGTTTGTCTCAACAAAAAGTCACTCTTCCCAAAGGCCG
ACATAAGATCATCATTCTGGATGAAGCAGACAGCATGACCGACGGAGCCCAGCAAGCCTT
GAGGAGAACCATGGAATCTACTCTAAAACCACTCGCTTCGCCCTTGTCTGTAATGCTTC
GGATAAGATCATCGAGCCCATTCAGTCCCGCTGTGCAGTCTCCTCGGTACACAAAGCTGAC
CGACGCCCAGATCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACCCTACAC
TGATGACGGCCTAGAAGCCATCATCTTCACGGCCCGGGAGACATGAGGCAGGCGCTGAA
CAACCTGCAGTCCACCTTCTCAGGATTTGGCTTCATTAACAGTGAGAACGTGTTCAAGGT
CTGTGACGAGCCCCACCACTGCTGGTAAAGGAGATGATCCAGCACTGTGTGAATGCCAA
CATTGACGAAGCCTACAAGATTCTTGCTCACTTGTGGCATCTGGGCTACTCACCAGAAGA
TATCATTGGCAACATCTTTCGAGTGTGTAAAACTTTCCAAATGGCAGAATACCTGAAACT
GGAGTTTATCAAGGAAATTGGATACACTCACATGAAAATAGCGGAAGGAGTGAACTCTCT
TTTGCAGATGGCAGGCCTCCTGGCAAGGCTGTGTGAGAGACAATGGCCCCGGTGGCCAG
TTAGAGCAGAGACTTCACTGACTGACTTACAGGTGCCCTATTCTGAGGTACAGGAGCCGC
GGCTTTCTGATGGGGGAAATGCCGCCTTAGGCTGGAGCCAACATGACTGTCTTTAAAC
TCCAGTGGCTGGCCAGGCACGGTAGCTCACGCCTGTAATCCCAACACTTTGGGAGGCCGA
GGCAGGTGGATCACCTGAGGTGAGAAGTTCAAGACCAGCCTGGCCAACATGGGGAAACCC
TGTCTTTACTAAAAATATAAAATTAGCTGGGTGTGGTGGCGGGACCTGTAATCCCAGC
TACTCGGGAGGCTGTGGCAGGAGAATCGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGC
CAAGATCACACCATTGCACTCCAGCCTGGGCGACAGAGTCTCCATCTGGGGAAAAAATT
AAATAAATAAACTCCCG

Gene 844. >OTTHUMT00007008169 cDNA sequence

ATGGCGCAACCAAGCAAGAGAGGGTGGCGGTGCCAGACACCAACGGTCGGAAACCGCC
AGACACCAACGGTCGGAAACCGCCAGACACCAACGCTCGGAAACCGCCAGACACCAACGC
TCGGAAACCGCCAGACACCAAGGCTCGGAATACACGCCAGACCACGACGGAGGGCGACCA
CCTCCCTTCTGACCCTGCTGCGGGCGTTCGGAAAAAAACGCAGTCCGGTGTGCTCTGAT
TGGTCCAGGCTCTTTGACGTACGGACTCGACCTTTGACAGAGCCACTAGGCGAAAAGGA
GAGACGGGAAGTATTTTTTCCGCCCCGCCGAAAGGGTGGAGCACAAACGTGAAAGCAG
CCAATGGGAGCCCAGGAGGCGGGGCGCTGTGGGAGCCGTTGAGGGCACTTTCCAGTCC
CCGAGGCGGATCCGGTGTTCATCCTTGGAGAGAGCTGAGAGCTCGAGTACAGAACCTGC
TAAGGCCATCAAACCTATTGATCGGAAGTCAGTCCATCAGATTGTCTCTGGGCCGGTGGT
ACTGAGTCTAAGCACTGCGGTGAAGAAGATAGTAGGAAACAGTCTGGATGCTGGTGCCAC
TAATATTGATCTAAAGCTTAAGGACTATGGAATGGATCTCATTGAAGTTTCAGGCAATGG
ATGTGGGGTAGAAGAAGAAAACCTCGAAGGCTTAACCTTGAAACATCACACATCTAAGAT

FIGURE 1 (CONT'D)

TCAAGAGTTTGGCCGACCTAACTCGGGTTGAAACTTTTGGCTTTCGGGGGAAAGCTCTGAG
CTCACTTTGTGCACTGAGTGATGTCAACATTTCTACCTGCCACGTATCGGCGAAGGTTGG
GACTCGACTGGTGTGTTGATCAGCATGGGAAAATCATCCAGAAAACCCCTACCCCAACC
CAGAGGGACCAAGTCAGCGTGAAGCAGTTATTTTCTACGCTACCTGTGCGCCATAAGGA
ATTTCAAAGGAATATTAAGAAGAAACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTG
TCAGTTTCTTGAGGGCTCCCCAGCCATGCTTCTGTACAGCCTGCAAACTGACTCCTAG
AAGTACCCCAACCCCTGCTCCTTGGAGGACAACGTGATCACTGTATTAGCTCTGT
CAAGAATGGTCCAGGTTCTTCTAGA

Gene 845. >OTTHUMT00006006404 cDNA sequence

CAGGCCTACACTTTGTGCATCCAAAGTCAGAAGCACACTTATGAGATCAATTTAGTTTCA
CATGTGGAAGAATGGCATTCACTGAGCTATGCCATCACGTACATAAAGAAAATGTAACC
ATGGCTGCAGAGATTTCTGTTGGGTCACTCTAACTGTTACCAAGATATGTAAGTGAAGT
TGGATCCTTTCAACAAATCTCTATATGAGGGGCTGAATATAGAGAACCAACGAACTAAGA
TCATTGTCTCTTCTGAAAGATGAGAAGTAACTTCTTGCCTACCATCATTGGAGGCA
ACGTTGATGGCCTTCTGGTTTTGATAATTATAGTCATTCTGTCCAAGTGTGGCATTTC
CCCCAGCCCTCTTCTCGTGTAGCAAGGTATGTGGCTTTTTTAAAAAGAAAATATCAATAA
TTGAACTTAGCATAGGGAAGGCCAGATGAAGCCAGCGAATCTGCTCACAGAAAAAAAT
AA

Gene 846. >OTTHUMT00006006406 cDNA sequence

GCGGCCGCTGCGACTCCGGAGCCGGCGGGGGCTCCGGTCTTCCCTGCGCCACCGCACA
GGACATCTCTCTGGCTGGGGAGCGGCGGTGAGACCCGCCGAGGGCGTCTGTGTCCCTCCT
CCCCCGCGGTCTCTGGTGCCTCCGCACGCCCCCTCCTCCTCGGCTCCCTCCTTCTTCTC
CGCGCCTCTCCGCCCCCTCCCCGTCTCCGCAGGCCGAGTGGTGCGGCCCGCTCCAGCTG
ACCGGCCTGGAATCCCGGTCTCCGAGCCCCCGGACTCGCGCCCGCCCGCGCGCCCGCTCCTT
CCCCCTCCCCCGCCCCGAGCCCCCGACGCGCCCGCCACCGCCTCCTCAGAGCGGGGCC
CGGGCCAGCCGCGCCACCGCTGCCGCCGCGGAGCTCCGCCCGCCCGGAGCACCATGGG
AGACGCTGGGAGCGAGCGCAGCAAAGCGCCAGCCTGCCGCTCGCTGTCCCTGCGGCTT
CTGGGGGTCCAGCAAGACTATGAATCTCTGTTCCAAATGCTTTGCTGATTTTCAAAGAA
ACAGCCAGACGATGATTCCGCTCCAAGTACAAGTAAACAGCCAATCAGATTTGTTTTCCGA
AGAGACCACAGTGACAACAACAATACCTCGATAACCACGCCAACTCTTAGTCCAGCCA
GCAGCCGCTTCCGACAGAACTGAATGTAACTTCAACGAGTAAAGAGGAGTGTGGGCCATG
CACAGACACAGCTCATGTCTCATTAAATCACACCAACAAAAGATCCTGTGGTACAGCAGA
TTCACAGTCTGAGAATGAGGCTTACCAGTAAACCGCCACGACTACTTGAGAATACGGA
ACGGTCCGAGGAAACAGTCGATCTAAACAGAAGAGTGCAGCTCGGTGCTTCCAGTGCCA
AACCAAACCTGGAGCTGGTGAGCAGGAATTGGGATCGTGTGCTGCGGTTATGTGTTCTG
TATGTTACATCGCCTCCCCGAGCAGCAGACTGCACATTGACACATGGGCCGTGGCCG
GGAGGAAGCCATCATGAAATGGTGAAGCTGGACCGGAAAGTGGGGCGCTCCTGCCAGCG
CATCGGGGAGGGGTGCTCCTGAAGGCCAGGCATGGCCACCAAGTGCAGCTGTTCTTAGTT
CACTAATGTTAGCCTTATTTAGGACAAAGTCAGCCAGACACCTTGTAAGTGGGCACGCTC
AGACTGCAGCCAGTCCGTTTCTTTCTTTAGCCAGCCATCCTGGTACTGTAGTTTAGGGG
TTGATGGTGGTTGAAATTGATTTCTGGCTGGTTACTAAGGTGCCTGCTAGCCATTGTATA
AAATTAAAACATGAAGAATATTTTTTTTTTTGAGCATGGCTAGTGGATTTAAAACAACACA
TACCTGTCACTGCTGGAGTCAAACCTTATAAAAAGCCTTAAGTGGAAAGTGTTCAGACGG
AGACTCTGAGTTAATAGAGGAGTAGAAGCTGGTGTAAAGTTCCACGACGCACATGGCT
TTGCCAGAACTCTGTTTAAATGATCGGCCTTTCACTCTTCACTTATCCTTAGTCCCAGT
AGCCAGGATACCTGATGGCCACGTGTGCCTTGGCCACGGGAGGCTGCTGAGATTGGCCAC
GTGGCTGGGCTGGGTGGTGGCCTCACTCTCCACAGAGCTGGAAATGGGGGTGGGGGAC
AGATTCTTACGGAAATTTTTTTTACCTGACTTGCTATGAAAAACTCATCACACAAGAAGA
GAAACAGTAACCTCACTTTGAAATTAGCTCCACTCAAGACTAGTCCACGAACGAGACCC
GCCTTTTCTACACAGGATCCAAGGTACAGAGAAGCAGCCAGAGTGCCCCGCTCCGCCGG
CTCTGGTCTGCCATTGCCAGTGCAGGGATCTGGCACGGACCAGATGTGGCGAATGGCAG
CACAGCGCGGTGGCTGGGTCTGCACACTGGCCTCTGCAGCCAGATTTCTATATTGGGAGT
TTTTTAAAAAGACATTTATAGCCAACAAGAATCAGTAGAAGTGTGGGAGCAGCAGCTG
GGGAAGCTGCCGCCACGGGCTCTGCCCCCTCCAGCTGGAGCCGCCCGTGCCTCCAGGGG

FIGURE 1 (CONT'D)

CCAAGAGGATGATGTCTGGCCTCCATTCTCGTTTCTATGCAGCCCCATAGTCCAAGGAC
 ACCCAGTCCACATCTACCATATAGCAAGTTTAGTAAGGGAAGGCAGCATACGTCCCAGGG
 ACAGTGGGTTTGGATCTGTCTAGAACAGCGGTTTGTGGCTGTGGCCCAGCTCCGAGAGTG
 ATATTTGCTCTGGTAGGTGAGGGCCTGAGGGTACATTTCTCCACCTGTGCCCCCTCATGT
 TCACAGAGGATTTTACGAGCTGCAACTGCGCACGCCAGGTGGGGAAGGGTGGGGTGGGC
 CTGGTTGCCCCATGTTAGGAAATCACTACCAGTCAGGTGGGGCTGGGGCTGGGTGGACAG
 GATCAGGATTCCCTTGAAAGCCCAGGCAGGGTGAGCAGTCCCAGTGGTCCTAGTGCCGCA
 TCAGATCCAGGTGGGTGAGGGCAGGAGGCCCCCTGCGGAGGCAGCGTGGATCTGCCACAC
 ATAGGCTACTGGAATAGTTTAAACCCAGCAACTTTCTTTTTATAAAACAACAAATGGTTC
 AACTCTGTCTGCAAATTAACAGCTGAACACCTGCAACTGCAAATGTTTTTGGATCCGACG
 TACTGAAATAGGAAGTCATGCTCTTCCCACCTCCACCCACCAGAGTGGAACCCGCTGCA
 AAATCCCCAGCCTTAATTCTTGCTTCAGGACCCAGACCGGTGTCTTGCTCTAGGGCAACC
 CAGGGCAGAGGGGCCAGGTCTGCCCAGCGTTTACCACTGCTGTCAAGCCACAGCCCTTGG
 CCACCATACGGGCCATCCTCAGTGAGGCAGCCCCCATAGGCTTCCGCCAAGCTCTGGTC
 CCGAAGAGGCTGTGCGAGCCCTTCCCGGCCCTCCCCAGGGCCCCCGCCCCCTCCTCTGC
 CTGCTGCGTGGAGGCAGCCATGGGAAGGAGCCCAGGGGAGCTGGCCTGGGGGAGCGAAGC
 CCATGTTCCGCTTCTGACTTAGAGCTGGGGGGGTGGGGGGTGGGGCTTGTTCCCCTGCA
 GTATCTGTTCTGTGAAGTTTGTAAATGTAAGGAAAGCTTAAATTCTTGATCTTTAAAA
 GAGAAAATCTTATTTAAACCTTTTGTGTTCTAGATTTACTTACACACATAGCCTAGAGCT
 CAGTTTTAGTTTTTAACATTGTGAAAATATTTAAAGAATCTTGTAACCTTTATTCTTTTTTC
 TCCTGCTGAAAAAAAATTAACCAATCGTATG

Gene 847. >OTTHUMT00006006407 cDNA sequence

TTTCTTTTTGTTTGGCCCAGGTCCAGCAAGACTATGAATCTCTGTTCCAAATGCTTTGCT
 GATTTTCAAAGAAACAGCCAGACGATGATTCCGCTCCAAGTACAAGTAACAGCCAATCA
 GATTTGTTTTCCGAAGAGACCACAGTGACAACAACAATACCTCGATAACCAAGCCAAT
 CTTAGTCCCAGCCAGCAGCCGCTTCCGACAGAACTGAATGTAACCTTACCGAGTAAAGAG
 GAGTGTGGGCCATGCACAGACACAGCTCATGTCTCATTAAATCACACCAACAAAAGATCC
 TGTGGTACAG

Gene 848. >OTTHUMT00006006408 cDNA sequence

CAGACGATGATTCCGCTCCAAGTACAAGTAACAGCCAATCAGATTTGTTTTCCGAAGAGA
 CCACCAGTGACAACAACAATACCTCGATAAACACGCCAACTCTTAGTCCCAGCCAGCAGC
 CGCTTCCGACAGAACTGAATGTAACCTTACCGAGTAAAGAGGAGTATACTCACTCTGTTG
 CCCAGGCTGGAGTGCGTTGTACCATCTCAGCTGACTGCAACCTCTACCTCCTGGGTTC
 AGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGCATTACAGGTGCCTGCCACCATGCC
 TGGCTAATTAGTAGAAAACAGGATCTCACCATGTTGGCCAAGCTGGTCTCGAACTCCTGAC
 CTCAAATGATCTAACACCTTGGTCTCCCAAAGTACTGGGATTACAGGCATGAGCCAC

Gene 849. >OTTHUMT00007008170 cDNA sequence

AGGGATGTCTTCTGAGATCCGTGCTATCTGCATTGAGGAAATTGGGTGTTGGATGCAA
 AGCTACAGCACGTCTTCTCACCAGACAGCTATTTAAATATATTGGTTGGACTCTGCAT
 GATAAGCACCGAGAAGTCCGCGTGAAGTGCGTGAAGGCTCTGAAAGGGCTGTACGGTAAC
 CGGGACCTGACCGCACGCCTGGAGCTCTTCACTGGCCGCTTCAAGGACTGGATGGTTTCC
 ATGATCGTGGACAGAGAGTACAGTGTGGCAGTGGAGGCCGTGAGATTACTGATACTTATC
 CTTAAGAACATGGAAGGGGTGCTGATGGACGTGGACTGTGAGAGCGTCTACCCATTGTG
 TAGGCCTCTAATTGAGGCCTGGCCTCTGCTGTGGGTGAATTTCTGTAAGGAACTTTTC
 TACCCTGAGTGCAGATAAGAACGATGGGTGGAAGAGAGCAACGCCAGAGCCCAGGTGCC
 CAGAGGACTTTCTTCCAGCTTCTGCTGTCTTCTTTGTGGAGAGCAAGCTCCACGACCAC
 GCTGCTTACTTAGTAGACAACCTGTGGGACTGTGCAGGGACTCAGCTGAAGGACTGGGAG
 GGTCTGACAAGCCTGCTGCTGGAGAAGGACCAGAACCTGGGTGATGTGCAGGAGAGCACA
 CTGATAGAAATCCTTGTGTCCAGTGCCCAGCAA

Gene 850. >OTTHUMT00006006409 cDNA sequence

ATTCACAGTCTGAGAATGAGGCTTCAACAGTAAAACGGCCACGACTACTTGAGAATACGG
 AACGGTCCGAGGAAACAGTCGATCTAAACAGAAGAGTCGACGTCGGTGCTTCCAGTGCC
 AAACCAAACCTGGAGCTGGTGACAGGAATTGGGATCGTGTGCTGCGGTGTTTCTCTGG
 AGAGAGATGTGTGGCATTTATAGTCTGATGCCCCCTGACCAGTTGCCACTCGGACATTC

FIGURE 1 (CONT'D)

T

Gene 851. >OTTHUMT00007007515 cDNA sequence

ATGTTGCCATTACAGGGGCCAGTGTCAATTCAAAGATGTGGCTGTGGATTTACCCAGGAG
GAGTGGCGGCAACTGGACCCTGATGAGAAGATAACATACGGGGATGTGATGTTGGAGAAC
TACAGCCATCTAGTTTCTTGGTCCTTCTTCTTTTCCATTAAACAAGATATGATATCACC
AAGCCAAACGTCACTAATTAAGTTGGAGCAGGGAGAGGAGCTGTGGATAACGGGAGGTGAA
TTTCCATGTCAACATAGTCCA

Gene 852. >OTTHUMT00006006414 cDNA sequence

TGTGTGTGTGTAAGAGAGCGAGCGAGAGAGACGCCAGCCGTTGTGATGATGTTAACATTC
TCTGGGTCTACACCAGTGGCCCTTTCTGCCTGCATTTTTATTACAACATAGTCCTAACAC
TGCATTTCACTGTCAAGGCACCTCCGTCCACTCCACTCCTGCGCACTCCTCCCGGCTGTGT
CTCCTGTCTTTTTTGGGTCCCTTTTGGAAATGTGGGCTCCTCAGAGTATTTGGAGCCACC
TTCCCCCAACACCTCCACCTCTAGGGGCTGGTCTTTGGGAGTGGGCAGGGGGCCTAT
GAAAAGCACCTAGCACCCACGGAAGACAATGACATCATGTGGGGCCAAGTCCGATGTCCT
CCATCACACACTATTGCCAGCTTCCATGGGCCTTGCAAGTTTAAGGGGAAAAAAATGG
GAAGCCATTTCTGAGAAAA

Gene 853. >OTTHUMT00007007518 cDNA sequence

GAGTCGGAGCCACAGCCAGAGCCCTGCCAGGCCGAGCCGAGCTGCAGCCCCGAGCGCGG
TGGTGCCTCTAGCCCCGTCTCTTGTCTCTCCTCAGCCTCGGTGCCTTGGAATTTGTGTCTG
CTGAGTCAGCAAGCCTTTTCAAGTTTGGCCGTTTTTGTGTTTGTGGTTTTGTATCAAGAT
GGGAACCTCAAACAAGTCATTCTCTCCTAAGGAGCTGGTGTCTTCATCCAGAAGGGACAGTT
TGTGCCAGCTCTCCAGAGAGAAAAGATCTGCCGGAGGCGCTGGGCAATGACCCCGGGACT
CCAGGCCAGAGGGGTCTGAAGCTGTTTGGGAAAGCAGCGGGACTCCTTGGAAGATGGCC
ATGGCCCCAAGCCCTTCCCTGGTGCAGGTGTACACCAGCCCCGAGCTGTGGCTATGGCA
GGATGGGCTGGGCACCTGGCACCCCTACAGTGCCACCCTCTGCAGCTTCATCGAGCAGCA
GTTTGTCCAGCAGAAGGGCCAACGTTTTTGGGCTTGGGAGCCTGGCCCAAGCATCCCCCTT
GGGCCAGGCAGACCCCTCGCTGGCCCGTTACATTATTGACCTCCCCAGCTGGACCCAGTT
CCGCCAGGACACCGGCACCATGCGGACTGTGCGGAGACACCTGTTCCCCCAGCACTCAGC
CCCTGGCCGAGGTGTCTGTCTGGGAGTGGCTGAGCGACGATGGCTCCTGGACCGCCTATGA
AGCCGGCGTCTGTGACGATCTGGAGCAGCAGGTGGCCAGGGGCAACCAGCTCGTGGACTT
GGCCCCCTGGGGTACAACCTACACTGTCAACTACACCACCCACACGCAGACCAACAAGAC
TTCCAGCTTCTGCTGCAGCGTGCAGCGCCCAAGCAGGGCCGCTTACCCAGTGACCACCAT
CATCGCTCCGCCGGGCCACACAGGCGTGCCTGCTCTTGCCACCAAGTGCCTCAGTGGCAG
CAGAACTGGCCCTGTATCAGGCCGCTACCGCCACTCCATGACCAACCTCCCTGCATACCC
CGCCCCCAGCACCCCCCCCCACAGGACCGCTTCTGTGTTTGGGACCCACCAGGCCTTTGC
ACCATACAACAAACCTCACTCTCCGGGGCCCGGTCTGCGCCAGGCTGAACACCACGAA
CGCCTGGGACGCAGCTCCTCCTTCCCTGGGGAGCCAGCCCCCTTACCGCTCCAGCCTCTC
CCACCTGGGACCGCAGCACCTGCCCCCAGGATCCTCCACCTCCGGTGCAGTCAGTGCCTC
CCTCCCCAGCGGTCCCTCAAGCAGCCAGGGAGCGTCCCTGCCACTGTGCCCATGCAGAT
GCCAAAGCCCAGCAGAGTCCAGCAGGCGCTCGCAGGCATGACGAGTGTTCTGATGTCAGC
CATTGGACTCCCTGTGTGTCTTAGCCGCGCACCCAGCCCAACAGCCCTCCCGCCTCCCG
TCTGGCTTCCAAAAGTCACGGCTCAGTTAAGAGATTGAGGAAAATGTCCGTGAAAGGAGC
GACCCCGAAGCCAGAGCCAGAGCCAGAGCAGGTCAAAAACTACACGGAAGAGCTGAA
AGTGCCCCCAGATGAGGACTGCATCATCTGCATGGAGAAGCTGTCCGCAGCGTCTGGATA
CAGCGATGTGACTGACAGCAAGGCAATCGGGCCCCCTGGCTGTGGGCTGCCTCACCAAGTG
CAGCCACGCCTTCCACCTGCTGTGCCTCCTGGCCATGTAAGTCAACGGCAATAAGGATGG
AAGTCTGCAGTGTCCCTCCTGCAAAACCATCTATGAGAGAAGACGGGGACCCAGCCCCAG
GGAAAGATGGAGGTATTACGGTTCCAGATGTGCTCCTCCCGGCCACGAGGACTGCGGGACC
ATCCTCATAGTTTACAGCATTCCCCATGGCATCCAGATGAGGGGCCTTCTTGACACCCTA
TCCTGGTGTCTGTTCTCCTCCCGCAGGGCCCTGAGCACCCCAATCCCGGAAAGCCGTTCACT
GCCAGAGGGTTTTCCCCGCCAGTGCTACCTTCCAGACAACGCCAGGGCCGCAAGGTG

Gene 854. >OTTHUMT00007007520 cDNA sequence

AATGGAAACCAGAAATCAGATATTTATGCCCAAGAAAAGCAGGATTTTCGTTTCAGCACTAC
TCCCAGATCGTTAGGGTGCTGACTGAGGATGAGATGGGGCACCCAGAGACAGGAGATGCT

FIGURE 1 (CONT'D)

ACTGCCCGGCTCAAGGAGGTCTGGAGTACAATGCCATTGGAGGCAAGTATCACCGAGGT
TTGATGGTGTCTAGTAGCGTTCCGGGAGCTGGTGGAGCCGAGGAACTGGATGCTGATAGT
CTCCAGTGGGCACCGACTGTGGGCTGGTATGCGCAACTGCTGCAAGCTTTCTTCCTGGTG
GCAGATGACATTATGGATTTCATCCCTTACCTGCCAGGGACAGATCTCCTGGTATCAGAAG
CTGGGCATGGGTTTGGATGCCATCAATGATGCTATCCTTCTGGAAGCATGTATCTACTGC
CTGCTGAAGCTGTATTGCCGGGAGCAGCCCTATTACCTGAACCTGATGGAGCTCTTCAG
CAGAATTCTTATCAGACTGAGATTGGGCAGACCCTCGACCTCATCAACCCCCCAGGGC
AATGTGGATCTTCGCAGATGCACCGAAAAAAGGCACAAATCTGTTGTCAAGTACAAGACA
GCTTTCTACTCCTTCTACCTTCCTGTAGCTGCAGCCATGTACATGTCAAGAATGGATGAC
AAGAAGGAGCACACCGAGTGCCAAGAAGATCCTGCTGGAGATTCAAGAGTTCTTTTCAGATT
CAGGATGATTACCTTGACTTCTTTGGGGACCCAGTGTGACTGGCAGAGTTGGCAATGAC
TTCCAGGACAACAAATGCAGCTGGCTGGTGGTTTCAAGTGTCTGCTACAGGCCACTCCAGAA
CAGTACCAGATCCTGAAGGAAAATTACAGGCAGAAGGAGGCCGAGAAGGTGGCCCGGGTG
AAGGCACTATACGAGGAGCTGGATCTGCCAGCCGTGTTCTTGAGTATGAGAAAGACAGT
TACAGCCACGTTATGGGTCTCATCGAATAGTACGCAGAGCCCCTGCCCCCAGCCATCTTT
CTGGGGCTTGGGCACAAAATCTACAAGTGGAAAAAG

Gene 855. >OTTHUMT00007007536 cDNA sequence

AGGAAGAATCGCTGCTTTTCTCAAGCAAATCGGTTTCTTGATATCTTCTGGTTCTCACTC
CTTGCTGCTCCTGATGCTTTGACCCCTTTTATTGATCAGAGTGCTCTAGAA

Gene 856. >OTTHUMT00007006590 cDNA sequence

ATGAAGTCCACAACCACTACTGCAGTTTCTGCCTCCTCCACCTCGTCTCTGCCGTCTCC
ACCCCTCCTTTAATTAAGCCTGTCCTGATGTCCAAGTCAGTGCCACCTTCACCAGAGAAG
ATCTTAAATGGCAAAGGAATTCTGCCAACCACTAGACAAGAAACACCAAAATGGCACC
AAAAACAGCAACAAGCCTTACAGGAGACTTTCAAGAGAATTTGACCCAAATAAACACTGT
GGAGTATTGGATCCCGAGACAAAGAAACCTTGCAAGATCCCTCACCTGCAAGACACAT
TCGCTAAGCCATCGGAGGGCAGTCCCAGGCCGAAAAAGCAATTTGACCTCCTCCTGGCA
GAACACAAAGCAAAGTCCCGGGAAAAAGAAGTTAAAGATAAAGAGCATCTCCTGACTTCC
ACGAGGGAAATACTTCCAAGCCAATCCGGGCCGGCACAGGATTCTCTGCTAGGGTCTTCA
GGGAGCTCTGGGCCAGAACCAAAAGTTGCATCCCCTGCAAAATCCAGACCACCAACTCT
GTACTTCCTTATCTCCCATCATCTGCAATAGCATAAGCAGCAGCACATCTTCAAATCAT
AGCGGCCACACTCCAGAGCCCCCACTCCACCGGTTGGAGGTGACCTCGCCAGCCGACTG
TCCAGTGATGAAGGGGAGATGGACGGAGCCGACGAATCCGAGAAGCTAGACTGTCAAGTTC
TCCACGCACCAACCCAGACCTCTGGCGTTTTGCTCATTTGGGAGTTCGCCTCATGGGACGA
GGGTACTATGTGTTTGGATAGAAGATGGGATCGTTTTTCGATTTCGCACTAAACTCCATGGTA
GAAAAACACCTGAATTACAGATGTGGCACAGAAACCCGAGCCACAGGGCATCAGGTCCC
TCCCCCTGTTCAGGACTTGCCCTAACCAATCTGCTGTCACTGAGCAACATTGGGGCTGCC
TGGGTGTCAACTCTGGAGAGCGTAGCACCCCGCTACCTCTCAACCTCGCTGCCCAAACC
CCAGGCCCGGGCGGGCCGAACCTGGAGGGATGGCAGCCGATGGGGGCGTGGAAGACATT
AGGAAGAAAAGGAACGGCCAAGACTCTTTTTTCTTTAACAAGCATTTAACTCTGCATCAG
GAGCCGCCAACACAGTATTCTCTTTTTCAGCCAAGATCCCTCCTGCGGCAGATAGCCCCCTG
CCCTCGCCAGCAGCCACATCACCACCCCCGTTCCAGCATCCGTTTTTGAGCCTTTTCAGC
AACCCAGTGCTGTGTATCTTCTTTCAGCTCCCATCAGCTCGAGGCTCACCTCTTCTTAC
ATAATGACATCAGCCATGCTCTCAAACGCAGCTTTTCGTGACATCGCCGGACCCGAGCGCC
CTCATGTCCACACCACAGCTTTCCCTCATGTGGCCGCAACCCCTCAGCATCATGGACTCA
ACCTTCAAGGCCCCATCCGCCGTGTCCCGGATACAGCCGTATCCCTTCCCCATCCCAC
AAGCCATCCAAAACCAAACAGCAAATCCTCAAAAGTCAAAGACCTGTCCACCCGTAGC
GACGAGTCTCCAAGTAACAAAAAAGGAAGCCACAGTCTTCGACTTCCTCCTCCTCCTCC
TCCTCCTCCTCTTCTTGCAGACATCCCTCTCGTCTCCACTGTCAAGGCCCTCACAAAAAG
AACTGTGTTTTGAATGCCAGTTCTGCTTTGAACTCCTATCAGGCGGGCCCTCCCTATAAC
AGCCTGTCTGTGCAAACTCAAACAATGGGGTGAGCCCACTCAGTGCCAAACTGGAGCCC
TCAGGACGGACCTCGCTGCCCGGGCCCGCGGACATAGTGAGACAGGTGGGCGCGGTG
GGAGGCAGCAGTGACTCCTGTCCCCTCTCTGTGCCCTCCCTTGCGCTCCACGCAGGGGAC
CTCTCTCTGGCCCTCACACAATGCTGTGTCTTCTCTGCCCTCTCTTTTGACAAATCAGAA
GGAAAAAGCGTAAGAACTCGAGTTCTAGTAGCAAAGCCTGTAAAATCACTAAAATGCCT

FIGURE 1 (CONT'D)

GGTATGAATAGCGTTACAAAAAGAACCCGCCAGCCTTCTCGCACCGGTGCCCCGATCCC
GTTAACAGCACCTCCTCTCGGCAGAATTCTTTCCTTCTTAAAGAAAACTGCAACTGTCA
CCAGCTGGCAAAGAAGTGTTCATGCCATGGTGCAGATAGGAGTGTGTATGAACATGTGG
CATCGGCGGGCCCTTCCCAGGCTGGCTCGTGTGTCTGAGTGGGGCTTCAATGGTGTCTTT
CAGGTTGGGAAAAATAGCAGCCTAGCTTTGTCACAATCCAGTCCTTCAAGTATATCCAGC
CCAGGACACAGCCGACAGAGGACTCCAGGAATGTCCGCGGCATTTCGTCTTGTGTTTTTC
CTCCACAGTGAGGACCTCTGTGACTGCCTTACATGCATGGATCCGTACCTCATTGCTA
TTGGGTCTTTAGATCCATCATCTCTTGCTATTCCAGCTGCCCTTTGCTGGATATGGGAG
GCTAGTCAAATGAAGCAGTGGGATATGCTGCATTTTCAAAAAGCCTTCCCAGGAGACTAC
AGTGTGTTGTGCTGGGTCAAGAATCACAGTAAGTCTACACCAAGCAGAAGCTGTGTA CTCT
CAAACTCTTGTGGACTCCTGA

Gene 857. >OTTHUMT00007006927 cDNA sequence

ATGGAGGATGAGAAATCTTCACCAAAGGACATGGATGAAAATGAAAGCAACCAGTCTCTG
ATGACAAGCAGCCAATATCCTAAAGAAGCAGTAAGAAAACGTCAAAATTCAGCACGGAAT
TCCGGAGCAAGTGATTCTTCTAGGTTTTCTAGGAAAAGCTTCAAACCTGGATTATAGACTA
GAAGAAGATGTAACTAAATCCAAGAAAGGAAAAGATGGGAGATTTGTGAATCCGTGGCCA
ACATGGAAAAACCCCTCTATTCCAAATGTTCTCAGATGGCTGATAATGGAGAAAGATCAC
AGCAGTGTTCCAAGTTCTAAAGAGGAAGTAGACAAAGAACTCCAGTGCTTAAGCCATAT
TTTATCACTAACCTGAAGAAGCTGGAGTGAGGGAAGCTGGCTTAAGAGTCACATGGCTG
GGACATGCCACGGTAATGGTGGAAATGGATGAGCTCATATTTCTCAGGATCCCATCTTT
AGCTCTCGTGCTTCACCATCGCAGTACATGGGTCCAAAGCGATTTTCGTCTGTTCCCGTGC
ACAATAAGTGAACCTCCCTCCAATAGATGCGGTCTTATCAGTCACAACCACTATGACCAT
CTGGACTACAATTCTGTCAATTGCTTTGAATGAGCGATTTGGTAATGAGTTGAGATGGTTT
GTGCCTTTGGGTCTCCTTGACTGGATGCAAAAATGTGGCTGTGAGAATGTGATTGAGTTG
GACTGGTGGGAGGAGAATTGTGTCCCCGGACATGATAAGGTCACTTTTGTCTTTACACCT
TCCCAGCACTGGTGTAAGGAAGCTAATGGATGACAACAAGGTGCTATGGGGCAGCTGG
TCTGTCTTGGGGCCTTGGAAATCGATTTTTTTTTCGCAGGAGATACTGGTTATTGCCCTGCT
TTTGAAGAGATAGGAAAAAGATTTGGACCTTTTGACCTTGACCTATTCCCATCGGAGCT
TATGAACCGTGGTTTATGAAATACCAGCATGTAGACCCAGAAGAGCTGTAAGGATTAC
ACTGATGTCCAAACAAAGAAATCTATGGCAATTCAGTGGGGAACCTTTGCTTTAGCAAAT
GAGTGGTTTGTAGTTTTTCTGAAGAGGTCTTTCACATCCCTCCCTCTGCTGCAGGTCTG
CTGGAGTTTGTGCTGGAGGTCCACTCCAGACCCTGTTTGCCTGGGTATCAACATCGGAGGCT
GCAGAACAGCAAAGATTACTGCCTGTTTCTTCTCTGCAAGCTTTGTCCCAGAAGGGCAC
CCGTGAGATGCCAGCCAGAGGTCTCCTGTATGA

Gene 858. >OTTHUMT00007007586 cDNA sequence

GATGGAAGCAGAGGTTGGAATGATGGAAGCAGAGGTTGGAATGAGGGAAGCAGAAATTGG
AATGATGGAAGCAGAGGTTGGATTGATGGAAGCAGAGGTTGGAATGATGGAAGCAGAGGT
TGAATGAGGGAAGAAGAGGTTGGTTTGAAGGAAGCAGAGATTGGAATGATGGAAGCGGA
GGTTGGAATGATGGAAGCAGAGGTTGGAATGATGGAAGCAGAGGTTGGACTGATGGAAGC
AGAGGTTGGAATGAGGGAAGCAGAGGTTGGAATGAGGGAAGCAGAGATTGGAATGATGGA
AGCAGGGGTTGGAATGATGGAAGCAGAGGTTGGAATGGTGGAGGCAGAGGTTGGAATTAT
AGAAGCAGAGGTTGGACTGACAGAAGCAGAGGTTGGAATGAGGGAAGCAGAGGTTGGAAT
GAGGTAAGGAGAGGTTGGAATGAGGGAAGGAGAGGTTGGAATGAGGGAAGCAGAAGTCGG
AATGAGGGAAGAAGAGTTGGAATGATGGAAGCAGAGGTTGG

Gene 859. >OTTHUMT00007006933 cDNA sequence

CTGAAGCTAGTGAGTCGCGGCGCCGCGCACTTGTGGTTGGGTGAGTGCCGCGCGCCGCTC
GGTCGTTACCGCGAGGCGCTGGTGGCCTTCAGGCTGGACGGCGCGGGTCAGCCCTGGTTT
GCCGGCTTCTGGGTCTTTGAACAGCCGCGATGTGATCTTCAACCCCAACCAACAGATCC
GCCTAACCAATGTGGCCGTGGTACGGATGAAGCGCGCCAGGAAGCGCTTCGAAATCGCCT
GCTACAGAAACAAGGTCGTGGCTGGCGGAGCGGCTTGAAAAAGACCTTGATGAAGTTC
TGCAGACCACTCAGTGTTTGTAAATGTTTCTAAGGTCAGGTTGCCAAGAAGGAAGATC
TCATCAGTGCGTTTGGAAACAGATGACCAAACTGAAATCTATTTTGAATAAAGGAGAAGTT
CAAGTATCAGATAAAGACACACAACCTGGAGCAGATGTTTAGGGACATTGCAATTATTG
TGGCAGACAAATGTGTGACTCCTGAAACAAAGAGACCATAACACCGTGATCCTTATTGAGA

FIGURE 1 (CONT'D)

GAGCCATGAAGGACATCCACTATTTGGTGAAAAACCAACAGGAGTACAAAACAGCAGGCTT
TGGAAGTGATAAAGCAGTTAAAAGAGAAAATGAAGATAGAACGTGCTCACATGAGGCTTC
AGTTCATCCTTCCAGTGAATGAAGGCAAGAAGCTGAAAGAAAAGCTCAAGCCACTGATCA
AGGTCATAGAAAGTAAAGATTATGGCCAACAGTTAGAAATCGTAAGAGTCAAATATTTTC
TTTGCTTCATGTTACCTAAATATTGTATTCTCTAGTAATAAATTTGTAGCAAACATTCA

Gene 860. >OTTHUMT00007006936 cDNA sequence

ATGCTCCCGGCTCAGGAGGCTGCCAAGCTGTACCACACCAACTATGTGCGGAACCTCGCGG
GCCATCGGCGTGCTGTGGGCCATCTTCACCATCTGCTTTGCCATCGTCAACGTGGTGTGC
TTCATCCAGCCCTACTGGATAGGCGACGGCGTGGACACCCCGCAAGCCGGCTATTTCTGGG
CTCTTCCACTACTGCATCGGCAACGGCTTCTCCCGGAGCTGACCTGCAGGGGCGAGCTTC
ACGGACTTCTCCACGCTGCCCTCGGGCGCCTTCAAAGCCGCTCCTTCTTTATCGGCCTC
TCCATGATGCTCATCATTGCTGCTGATCATTTGCTTTACCTCTTCTTCTTCTGCAACACG
GCCACTGTGTACAAGATATGTGCTGATGTCAGCTCACCTCCGAGGACAGTTCACGTGAC
CTCACTTCCACATCTCCAGCCAAGGGTCTGGGTTCCACGGATGTGGGAAGGATCCATTC
CAGGCTCCCTCTAGCACCACCGCCCTCCCTTTCCATACCACTGGCAGAACCAAAAAGAG
AGCAGGGTGGCAAAGCAGAAATGTGACTTCCAGAGTCCCAGCCCCAGCATCGAAAAGAG
AGTACTGGAGGGGTGGGTTTGAAGCTAAGAAACAATAGTTTAATAACGTGCACAAATGTA
TTATTCTTTAAGCTAAGACTGAGTCAGAAAGATGAGCACTGTATATGTGGATGGGTAGAT
GTCTACAGTGACTATGCATTGCCTACTGATGTGATGTCTGTTTCCAGGACTGATTGAGTC
CGAGAAGAGATGGGAAAGTCAGTAGATATTGAAGCCTCAGAGGTTCCACAGAATCTAGAA
AAAGCAGAGCAAAATAAACCCAAAGCAAGCAGAAGGAAAGAAATAATAAAGAACAGCAGT
TCTCCATTTTGGCTGTACATCAGGGGAGCTTTAAAAAATACCAATATCTGGATCCCATC
CCCAAGAATTCTGATTAA

Gene 861. >OTTHUMT00007006950 cDNA sequence

ATGGAGTGGTGGGACGAATCTGAGGAGTCGTTGGAGGAGGAGCCACGGAAGGTGCTCGCC
CCTGAGCCTGAGGAGATCTGGGTGGCGGAGATGCTGTGTGGCCTCAAGATGAAGCTGAAG
CGACGGCGAGTGTGCTGCTGCTCCCTGAGCACCACGAGGCCTTCAACAGGCTGCTTGAG
GATCCTGTGCTAATAAAGATTCTTGGCCTGGGACAAAGATCTGAGGGTGTGCGACAAGTAT
CTCCTGGCTATGGTCATAGCGTATTTTCAGCCGGGCTGGCTTCCCCTCCTGGCAATACCAA
CGCATTCATTTCTTCTGGCTCTCTACCTGGCCAATGACATGGAGGAGGACGACGAGGAC
TCCAAACAAAACATCTTCCACTTCTGTATAGGAAGAACCGCTCTCGCATACCTTGGCTC
CGTAAGCGTTGGTTCCAGTTAGGCCATTCCATGAACCCGAGGGCCAGGAAGAACCGCTCT
CGCATACCTTGGCTCCGTAAGCGTCCGTTCCAGTTATACCGTTCCACGAACCCGAGGGCC
AGGAAGAACCGCTCTCGCATACCTTGGCTCCGTAAGCGTCCGTTCCAGTTATACCGTTCC
ATGAACTCGAGGGCCAGGAAGAACCGCTCTCAGATAGTCCTGTTCCAGAAAACGACGGTTC
CACTTCTTCTGTTCCATGAGCTGCAGGGCTTGGGTTTCCCAGAGGAGTTGGAGGAGATC
CAGGCTTATGACCCAGAGCACTGGAACACTGGACCCAGGGGAGATGTGGATTTTTCAGCAG
GAACCTTTATTCCAATGCTAATGGCAGACACCAGGCAGGAGGAGGAACCATTGTGTCAG
ATCATCTAG

Gene 862. >OTTHUMT00007007904 cDNA sequence

ATGAGACAAGAGGTAGAGGGGAGAGGTAGAGGTAGCCACGAGCTGATAATTACAGACAAG
AGATGCGGAGTATGTGGGGGCTCATTATCCTGCATAGTCTATCTTTGTATATCTTTGAAC
TTTTCAAGAATAAAAAAGCTTAAAAAGTATACATGGCCTGGTCTACCAGAGACTCACCC
AATGCCAGCCTCCAGCCAGGGAGAGCCAAGTTTGATTTTCAACGCATCTCACACTCCT
CTGCACTCTCAACTTGGAGCGCTCCAAACAGGGAAACCCCAAGCCTTGCTGGCTTCTGCC
AACCCCTGAGCAGAAGCATGGGTCCCCCTGATCACCACCTCACCACCTCATCCTGATC
TCACTGTACACA

Gene 863. >OTTHUMT00007007905 cDNA sequence

CAGGTGGCCGGGATGCAGTACCTGCACGGCGTCTTGGGCCCCATCATCAACAAGGTGTTT
GAGGAGAAGAAGTACGTGGAGCTGGACCCAGCAAAGTGGAAGTTAAGGATGTAGGGTGC
TCCAGGCTGCACCGCCCGCAGACCGAGGCCGAGGTGCTGGAGCAGAGCGCGCAGACGCTG
CGCGCCACCTGGGGGCCCTGCTGAGCGCGCTCAGCCGCTCGGTTTCGCGCGTGCCCCGCC
GTGGTGCAGCGCCACCTTCCGCCAGCTCTTCCGGCGCGTGCGCGAGCGCTTCCCCGGCGCC
CAGCACGAGAATGTACCGTTCATCGCCGTACCCAGCTTCTGTGCTGCGCTTCTTCTCC

FIGURE 1 (CONT'D)

CCCCCATCATGTGCGCCCAAGCTCTTCCACCTGCGGGAGCGCCACGCGGACGCCCCGACC
AGCCGCACCCTGCTCCTGTTGGCTAAGGCAGTCCAGAACGTGGGCAACATGGACACGCCG
GCTTCCAGGGCCAAGGAGGCTTGGATGGAGCCGCTGCAGCCCCCGTGCGCCAGGGCGTG
GCGCAGCTGAAGGACTTCATCACCAGCTCGTGGACATCGAGGAGAAGGACGAGCTGGAC
CTGCAGCGGACGCTGAGTTTGCAGGCGCCACCTGTGAAGGAGGGGCCACTCTTCATCCAC
AGGACCAAGGGCAAGGGCCCCCTCATGTCTCTCTCTTCAAGAAGCTCTACTTCTCCCTC
ACTACCGAGGCCCTCAGCTTCGCGAAGACGCCCAGCTCCAAGGTGGCTGTAGTCCCAGCA
CTTTGGGAGGCTGAGGTGGGAGGATCACTGGAGGCCAGGAGTTTGAGAACAGCCTGGCCA
ATGCCTCCCCCTCCGTGTCCCCTGCAGTGTGTGAATGAGCTTAACCAGTGGCTGTCTGCG
CTGTGGAAGGTGAGCATCAACAAACACCGGACTGCTGGGCTCCTACCACCTGGCGTCTTC
CGTGGGGACAAGTGGAGCTGCTGCCACCAAAAAGAGAAGACAGGTGAGGGCTGCGATAAG
ACCCGGTCACGGGTGACCTGCAGGAGTGAATGACCTCTTGACCATGACCTTGAGGCC
CAGCTCATCTACCGGCACCTGCTGGGCGTGGAGGCCATGCTGTGGGAGAGGCACCGGGAG
CTGAGCGGGGGCGCAGAGGCAGGCACGGTGCCACGAGCCCTGGCAAAGTCCCTGAGGAC
TCATTGGCCCCGGCTGCTCCGGGTGCTGCAGGACCTCCGCGAGGCCCATAGCTCCAGCCCG
GCCGGCTCCCCACCTCAGAGCCCCAAGTGCCTCCTGGAGCTGCAGACG

Gene 864. >OTTHUMT00007007907 cDNA sequence

ATGGAAGACAGTAGCACAGACACAGAAAAAGAAGAGGAAGAGGAGAAAGATGAAAAGGAT
CAAGAGCCCATTATATGCCATAGTGCCCAACAATTAACATTCAAGATGAGCGGTTTGTGTGAT
TTATCTGAAACTCCAGCTTTTCAATTTTCTGTCATGAGGTATAT

Gene 865. >OTTHUMT00007007908 cDNA sequence

AAAGGAAAGGAGGCCAAGGGGAAGAAGTTGGCTCTGGCCCCCTGCTTTTGTGAAGAAGCAG
GAGGCCAAGAAAGTGGTGAATCCCCTGTTTGGAGAAAAGGCCTAAGAATTTTGGCATTGGA
CAGGACATCCAGCCCCAAAAGAGACCTCACCTGCTTTGTGAAATGGCCCCGCTATATCAGG
TTGCAATGGCAGAGATCCATACTCTATAAGCAGCTGAAAGTGCTCCTGCGATTAAACAG
TTCACCCAGGCCCTGGAAGGCCAAACAGCTACTCAGCTGCTTAAGCTGGCCCCACAAATAC
AGACCAGAGACAAAGCAAGAGAAGAAGCGGAGGCTGTTGGCCAGGCAGAGTTGTGGGCA
AAGGGGACCTCCCCATTAAAGAGACCACCTGTCTTTGAGCAGGAGTTAACACCATCAACA
CCTTTGTGGATAACAAGAAAGCTCTGCTGGTGGTGAAGTGCACACGACATGGATCCCATTG
AGCTGACTGTTTTCTGCCTGTCTGTGTGATAAAATGGGAGCCACTTGCTGCATTATCA
AGGGGAAGGCAAGACTGGGATGTCTAGTTACAGGAAGACCTACACCACTGTGACTTCA
CACAGGTTAACTCAGAAGACAAAGGAGCTTTGGCTAAGCTGATGGAAGCTATCGGGACCA
ATTACAATGCCAGATACGATGAGACCCACTGTCACTGGGACGGCAATGTCTGGGTCCCA
AGTCTGTGGCTCACATTGCCAAGCTCGAAAAGGCAAAGGCTAAAGAACTTGCCACTAAA

Gene 866. >OTTHUMT00007007909 cDNA sequence

TTACTAGAAAAAGAACTCTGTATTACAGAAAAGCAAATGGGTGCAAGGTACCGCAAAAT
CACGACCTACCAAATGCAGCATAGGCACAGAAAAAGAACAGTTTAAATAAGCGGAACCCC
TTATTGATGAAGAGTTAGAGTTAACACAGGGATTTACCAATTGAACTCAGAGATTTTAAAC
CAGCTTATCAAAGCTAATTAATAATGGGGTTGTGATATTGAAAATATAGCAAGAGAAGAAG
AGGGAAAAAGCTTACGGGAGGTCTTGAATACTCAACTGTGTTCTGGGAAAAACGCAATG
AGCTCCAGGACATAGACAAGATTATGGCTCAGAGTGAAAGGGAGAGATAAGAATTGAGAG
AATAATTTGCATCAGAAAAGCACCTGACAAAAGATCAGATGGTACAAAGCATCTAGCAC
CTTTTCTTCAGCTGAGGATATCATGGTACTATTATAACAGAGGGAAAACTGTACTGAGG
AAGAGGATCATTCTGTATTTTGTGTGCTTGGATTCAACAAGGAAAATATTTGTGATGAAA
TGCAATAGCCCTTACAAGCGGTCCCTGTTCTGTCTCAATTTGACTGGTTTTCTTAAATCCA
GAAGTGCAAGTGAAGTCCAGAGGAGATATAACACCTTCATAACCTTGATTTGTAAAGAAA
ACGTAGAACTAGAAGAA

Gene 867. >OTTHUMT00006006416 cDNA sequence

AAAAGGAGAGAAAAACCAATCAATACAGAGGAGTGAGCTTGAGAAAAGGTAATAAGGAG
TAGGACAAACGTAAGTCAATTCCAGGATTAGTGTGAGCCTGAGGCTCTGGGGAGCGGCCT
CCGGAGATATTGACCGAGCAGGGAGAGCAGGGATTACACAAATAACCAATTAAAGAACAT
GGTGGGGCCGGATAAAGAGCTCCTGTAGCTCCGGCCTCTGTGCGCATCAGCATCAGCCTG
GGAGTCTCCCCAGGACGGCATGGCACGTGAGCAGCACTGCAGTCCTTGGGTCTTCGGCGC
CAACCTGCAACCTGATCA

FIGURE 1 (CONT'D)

Gene 868. >OTTHUMT00006006418 cDNA sequence

CCCCATCCATTAAAGGCAAGAGAGTGAAAAGTGGGAGAGAAAGCTCCCAAGTTCAACAGC
AGTGACCTAGGGTCATGCAGTGAGGACTTACAAAGTCCAAGAAGAAAGCATTGGGAGAAG
TGCTACACATGCTCAACTGAACTTCCTGTCAAATTGTTCTCACTCGTTTGGGCACAAGTC
TGCTTAAGCCATCTCTCATTAACTTTACTCTTGCCCGAAGCCCTCTACGCCCCCAACCC
CTGCTAATCTTCCACAAGCAAGCTGATCACACTGGGATCTCCTTTTCCAGACACGTTTG
ATTCTCACTTTCTCCTGAACCTAGAAATGTGCTTCCCACCAAAGCATGCCAGGCACTAAC
TCGTCCCTACTGAAAGGGGCTGTTAAAAGCTCATCTTCTTTCAGATGGTAGTGAGGTGT
GAGGTGATCCTTTCTCTTTCTTTTTTTTTTTTTTTTACTTTTAGCTACCCCTCAATTCTG
GTGTTTCAGTAACAATGTATTCCACTTAAAAGAGAGAAATCATATTAATTATTCTAAGATA
TAAACACTTAATTTTATTCA

Gene 869. >OTTHUMT00006006420 cDNA sequence

ATGAACAGACAGTTGGACCTAAGTGGGAAGGTAATCATGAAAGCTCAACTTGGGGAGGAT
ATTCCAAAATTCTTATTATAATGAAGATATTAATATTACTTATGATGAATTAGTGCTA
ATGATGCAACGAGTTTTTCAGGGGAAAACCTCTGCGTAATGTTGAAGTAACAATAAAGTAT
AAAGATGCAGATGACGATCTTATAACAATTTTTGATAGTTCTGATCTTTCCTTTGCAATT
CAGTGTAGTAGGACACTGAAATTGACATTATTTGTTAATGGCCAACGAAGACCCCTTGAA
TCAAGTCAGGTGAAATATCTCTGTGCGAGAACTGACAGAACTTTGAAATAAAGTGAATCAC
TTATTGGATAGCTTGGAAACCACTGGAAAACAGGACCTTCCACTAATATTCTTGAAAAT
GTTACTGTGAATGGTAGGGAAGAAAAGCCTGCTTCTTCGGATTCTTCTGGAAAACAGTCT
ACTCAGGTTATGGCAGCAAGTATGTGAGCTTTTGACCCTTTTAAAAAACCAAGATGAAAT
AAAAATAATGTTACGTCGGCATTGCGCTTAACAGATGATCAGGTTTCAGGGCAACCCAG
TGCTCCTGCAGAAGACTGTTTCAGGAACATCTGACAGCATTGCCGCCTCCTCCTCAGTAGC
AGCTCACCCACCAGGAGTTTCAGCCACAGCAACCACTATACAGAAGCTAAGATACAAGC
AGGTCAGACTGAAAGTCAGCTGTATCAATAGTACCAGCAACAGGCTAGCTATGGTGCACC
GTGTCTGCGGGCTCTACCTCAGCAGCCTCAACAGTATGGTATTTCAGTATTCAAAAAGCCA
GAGTCAGCAGACTGGACTCCAAACAACCTCAGCAGTTCCAAGGATATGGCCAGCAACCAA
CTACCCAGGCACCAGCTCCTGCCTTTTGGTCAGCCTCAACAACCTGCCTGCTCAGCTGCC
ACACAGTACCAGGCAAGCAATTATCCTGCACAAATTTATACTACCCAAACTTTTTCAGCCT
ACTAATTATACTGTGGCCCCCTGCCTCTCAACCTAGAATGGCTCCAAGCCAACCTGGGGCC
TATAGACCAAGATCAAGTTTTACTTCACTTCTCTGTAAGTAGCATGACCCCTCCTCCAACCT
GGGCCTAATCCTTATATGTCCTCCCTTTGGTCAGGGCTATACCAAACCTGGACCTGGTTA
TCGATAA

Gene 870. >OTTHUMT00006006424 cDNA sequence

GCGAGGACGGCGGCCACGGAAGCGGCCAAGGGGGCGGTGGCGCAGAGAGGGGTGCGGAGC
GGGCGGAAGAGGCGTCTGTGTGCGAGCTTGGTCTCAGAGGAGCATCGCTGGGAACAACGA
CTATCGTCTATTCCACAAGATGAGTAACAGCCACCCTCTTCGCCCCCTTTACTGCAGTGGG
GGAAATTGATCATGTGCACATTTTGTCTGAAATATTGGTGCCTTGTGATTGGGGAAGA
ATATGGCGACGTACATTCTGTGGTGGAAAAGAAACGTTTTCTGCCCACAGGGTAATTTT
AGCAGCCAGGTGCCAATATTTTCGAGCATTATTATATGGTGGAATGCGAGAGTCTCAGCC
TGAAGCAGAAATTCCTCTCCAAGA

Gene 871. >OTTHUMT00006006425 cDNA sequence

AGGAGCATCGCTGGGCTCGTCTCAATTTGGCCCTGCTGTATTTCAAGTGCTCGGTAGCCA
CATGTGGCAAGTGGCCATCACTGTGGCCATTGCAGCTCCAAAGGGACAGGAGAGTTGATG
GAAATTAGACACTGCATTCTACAGCCTCATGAGCCCAAGAGAGCAAACCTTGGTTTGCTG
AAAATCAGCAGATAAGGCAATTGAAAGGGGAAGAAGAAACAACGACTATCGTCTATTCCACA
AGATGAGTAACAGCCACCCTCTTCGCCCCCTTTACTGCAGTGGGGGAAATTGATCATGTGC
ACATTTTGTCTGAACATATTGGTGCCTTGTGATTGGGGAAGAATATGGCGACGTACAT
TCGTGGTGGAAAAGAAACGTTTTCTGCCCACAGGGTAATTTTAGCAGCCAGGTGCCAAT
ATTTTCGAGCATTATTATATGGTGGAATGCGAGAGTCTCAGCCTGAAGCAGAAATTCCTC
TCCAAGACACCACTGCAGAAGCATTACAATGCTACTCAAATATATCTACACTGGGCGGG
CAACGCTGACAGATGAGAAGGAGGAGGTGCTGCTGGACTTTTTGAGCCTGGCTCATAAAT
ATGGATTTCCAGAGCTAGAGGATTCTACCTCTGAGTATCTCTGCACCATACTTAACATTC
AGAATGTCTGCATGACTTTTGATGTTGCCAGTCTCTACTCACTTCCAAGTTAACTTGT

FIGURE 1 (CONT'D)

TGTGCTGCATGTTTTATGGATAGGAATGCTCAGGAAGTCCTCTCAAGTGAAGGTTTCCTCT
 CCCTTTCTAAGACAGCACTTTTAAACATCGTGTTAAGAGACTCATTTGCAGCTCCCGAAA
 AAGATATTTTCTAGCCTTATTAACTGGTGTAAGCACAAATCAAAGGAGAATCATGCTG
 AAATCATGCAGGCTGTGCGTTTACCTCTCATGAGCCTCACAGAGCTTCTGAATGTTGTGA
 GGCCTTCAGGACTGCTGTCTCCTGATGCCATCCTGGATGCCATTAAAGTGCATCTGAGA
 GCCGGGATATGGACCTCAATTATAGAGGCATGCTCATACCAGAAGAAAACATTGCAACTA
 TGAAGTATGGAGCCCAAGTTGTAAAGGGGGAGCTGAAATCAGCCTTATTAGATGGTGATA
 CTCAAATTATGATTTGGATCATGGATTTTCAAGGCACCCAATTGATGATGACTGCCGTT
 CCGGCATCGAGATTAAGCTAGGTGAGCCATCCATTATCAATCACATACGGATACTCTTGT
 GGGACCGAGATAGCCGGTCTTACTCATACTTCATTGAAGTGTCAATGGATGAACTTGATT
 GGGTCAGAGTGATAGATCATTACAATATCTGTGTCGTTCTTGGCAGAAATTATATTTTC
 CAGCCCCTGTCTGCAGGTATATTGCAATTGTTGGGACTCACAACACAGTGAACAAGATTT
 TTCACATTGTGGCTTTTGAATGTATGTTTACAAAACAAACCTTCACTCTTGAGAAGGGGC
 TGATAGTTCCCATGGAGAATGTTGCAACAATTGCTGATTGTGCCAGTGTGATTGAAGGAG
 TCAGTCGGAGCCGAAATGCCTTGCTGAATGGGGACACTAAGAATTATGACTGGGATTCTG
 GCTACACATGTCAACAGCTAGGAAGTGGTGCGATTGTGGTTTCAGTTGGCACAACCGTACA
 TGATTGGGTCAATACGGTTACTACTTTGGGATTGTGATGATCGAAGCTATAGCTACTACG
 TTGAGGTTTTCTACCAACCAGCAACAGTGGACCATGGTTGCTGACAGAACTAAAGTCTCCT
 GCAAGTCCTGGCAGTCAGTAACTTTTGAAGGCAGCCTGCCTCCTTCATCCGTATCGTTG
 GGAACACAAACACAGCAAATGAGGTGTTCCACTGTGTCCACTTTGAGTGTCCAGAGCAGC
 AGAGCAGCCAGAAGGAGGAAAATAGTGAGGAATCGGGGACAGGGGACACCAGCCTGGCCG
 GTCAGCAGCTCGACTCCCATGCGCTGCGGGCGCTAGTGGCAGCTCACTACCCTCCAGCC
 CAGGCTCCAACTCACGCTCCCCCAACCGGCAGCACCAATAAAGGAGGCAGCGGGCCTGGT
 GTGACTTGGTGGGCTCGGGCAACGGCAGGAAACGGTCTCCTCCCTGAGCAGGGGTCTCTG
 TTGACTGCCCCCACCTCTGCCCCCTTCCAGGGAGGAGCCGACCTAGCTGCAAAAGCAGAC
 ACCGAACAGGTTTTCTCCCAAGGACAGAAAGGGGCTGCTTTGTTCTTCTCAATTTATCCA
 AATCAGGCAGGTCTCAAGGGGGAGAAAATGGGTCTTCAATCTTCATCAAGTCCACCATT
 ACACCCTACCTCTCTAATCTAGCCCAGGCGCAGGGAAACAGGAGGAAGTCATAGACAGGCC
 TGTGTTGGAATACAAAAATGGCACGCAAAACACTCAGGCGGAGGAGAAAGCCATTGGGCCT
 TTGCTACCTGGAGGCACCTTTTAGGAATGGGCCTCCATAGAGTGTTTATTCTGCTGGAAT
 ACATTGCCCTGGCAACTAAATGATTTTTTTATTTGTTTTAGTTATTCTCCACTCAGTGAAT
 CATAGGTGTTCCGGATCTATTTGAAATGCTCAAACAGCAAATCACTAGTTTTTAATCCCTT
 TTGATGCTATAATTTTCTTCTTGGTTTTTGAACGGTTGAGCTTGCGGGGACAGAGACC
 ATCGTGATGTCTCTAAATGAGACACGGATGCAGCTCATCCTGGCACTTGGGCCACAGA
 GGAAGTGCCACAAATGCACACAAGCAAATCAACCTGTGGACACTGGAGTTAATAGTCACT
 CGTGTGGCTGAGTTACTCACCTGTCTTCTGACATGGATCCAGCCTTTAAGCTTGGGAG
 GCTGACAAGGAAATAGTTACTATGCCCGCTGCTAATTCACTGTTCCGAAGTCCATGTAGA
 TAAACATATACCGAGTTCTGGCGTGGCCAAACCTGCCGGGACTGCCGTGGCTTAGCTGC
 CCCTCCAGTTGTGTTTATCGAAGCATTGGAGAGGCAGCCACCTGCCCATCAGCGTCAGGA
 ACGCAGAACTGGGACTCCGTGCTTCCCCACACCACAGTACTCAACTGGGACTGAAAAA
 TAGCAGTTCCAAGAAGCTTTTCTCCTAATCCTCATCAAAGGACCTCATTTGACGATGGT
 GGCTTGATGTGGCTCCGTCTCCTACTTAGTGATTTCCATTCCAGTGCTGCCTGCCCTGGG
 TAACTGCGCACAACTTGCCCTGCCCTCCGCTGTCCCCAGAGCTCCGGCCTCTGTGCGCA
 TCAGCATCAGCCTGGGAGTCTCCCCAGGACGGCATGGCACGTGAGCAGCACTGCAGTCCT
 TGGGTCTTCGGCGCCAACCTGCAACCCTGATCAAAGGAGGGTGAGGGCGTGGGAGTTTCC
 TTTCAGGTGTGTCAAAGACATATCAGCTGCGCTCTAGAAAGAGCCAACGGGTGAGCCGCT
 TCCTCCTAGTTTAACTTGATTTTGAAGTATTTGTCCATATGGAAATAGTAGGCTCCAGCT
 GCAGGGCTGAGCTGCTTCTATCCCCCTCAGCTCTGATCTCTGCCACTTCCCTGTTGTGTG
 GGAGAGTGGAACACTCCTGGGATGCCAGGCATTTTATAATGGGAGGAGGCTCCTGTAAGG
 AACGGTGGGCGCCCGCTCACAGTGGGGGGCCCTCCAGCATGGTTGCTGACTCTGTGAGCC
 CCCAGCCCCGGGTTGCCAATTAGCCAGAGAGCTCCTGCACACACAGCACTTCTTCCCCA
 GTGTGTTTTCTACCCAGATGGGGACAAAGGAGCCAGACAGTCATATCAAGGGCAGAGTTC
 AAACATTTTGAATGAGCCATTACATGCTTCTTTTAAACATGGGCATCACCTGCCCAG
 AGGCCCTTGGCCTGAAGCAGCATGCTGCTGACCTTGGGAAGAGAGGGTGGGCTGGTGGG

FIGURE 1 (CONT'D)

GTGCTGGAGGAGCTGCCCGGCCCTGCATCTGCAACCTCCAGTCCCCTGCCACAGAGCA
 CGCAGAGCCCTCCTGTGCTCCGGGAACGAGATAGCAGCTTGGCAGCTCGGCCTCGCATCT
 GAAAAGGAATACGCTGCAAAGCCTCGGCCCTAGACCCACATCTGCAGCTCCCTGGCCTGT
 GGCGGTTCTTTCTTCGCGGCATGCCCTTCCAGATCTCTGTCCCTCCTGTCTTCTAGCAC
 TTTAAAGATGCCCCTTATCATCAGATAAAGAGAAGTATGGGGACGATGGGGTGGCACTAA
 CAGTAGATGTCAATTGGTGAGGACTGATGGCAAAGTCTCATTCCCTCACAGCCGCGCTGCC
 AGCTCGCCTCCCCCTCGCTTTGCTGGGAGCCTGCCCTGGACTCCAAAAGGACACGGGTTC
 ACCTCCTTTCCAGGCTGGAGGGGTACTGCCCTTCCCTGAGGGGCTTCTGACTGGGGCA
 GGAACCTCTTTTCGTGTGTCCAGCTGGGCCTGGAGGCCAAGTCAAGGTGTGTCAACCACA
 CACCAGGGCAAGGACCTCATCTCCAGGGAACAGGGACAAGTGAGTGGCTACCAGAAAGTC
 CCCGGGCAGCCTGGAGTTCCCAGAGCCTGGCTGGTCTACAGAGCACTTCTCCCCTGGG
 CCACCAGGACCAAAGCGACCTAAACACTTGAAGCTAAAAGCAAGTGCTGATGATGGGATG
 GGCTGGCACGTGGCTGGGAGGGCTCCTGGGCACCACAGAGCCCTCAGCCAGCAGAGAGT
 GGAGGCTCAGTCCGTGGGAGCGGGGGTTGTGAAGGAGACATGGCCAAGCCCCTGGTCCG
 GGAGATAAGCTCCCCATGCCAGGCCAGCCCCAGGGGCAACAAGCCAACATGGAGAGAG
 GTGGCAGGTGAGGCTGACAGGTGGGTGCCTGTGGCCTGGGCCCATGAGGGCAATGGTCCT
 CAGTAACCAATGGAAAGGACACAAGGGCGCCATGGTCACCACCACCAGGCAAAGAAATG
 GGAGGTGGCCAGCACCCCCACCTTCACTTTTTCATTATTATTATTATTATTATTATTATT
 ATTGGAGAGTAGAAAGGCAACTTCATT
 GGAGCTTTTGGGGAAAAAAGCCTTCAAAGTCACCTTCTGGCAGCTCTGGGGAGGGTCATT
 TGGGGTGGACTGAGAGTGTAGGGCAGGTAGGGTGTGTGCTGGGCAGCAGCTGTGTCCATG
 CAGCCAGCACCCAGCAGGGCAGTCTCACAGGAGCCGTTGTGAGCACTTTGGACTTGAAGC
 AGCTATGAACCAACCCCCCGCCCCACCGTCTCTCCCTCTCACACACACACACACACAC
 ACACACACACACACACACACACACACACACCCGTTTTACCATTTTCTCAGTGCTTTTCTGC
 TTTTATTCTTTTGTATTTTAGTTAGAAGCACAAGCCATGATGGATGTGGGACTCTTCTCAA
 TTGCTCTTTAAATTGTCACTTTTAAATCCTATTAAATGAAGTGTGATTCTTGACAAAT
 ACATTAAAAGTGTTTTATTCTAGAAAGATTGGGAAAAGAAATTATTTTCAGCAAGAGTA
 GGATGTTTGTTAAACTGATTCTTGGC

Gene 872. >OTTHUMT00006006426 cDNA sequence

GTATATTGCAATTGTTGGGACTCACAACACAGTGAACAAGATTTTTTCATTGTGGCTTT
 TGAATGTATGTTTACAAACAAAACCTTCACTCTTGAGAAGGGGCTGATAGTTCCCATGGA
 GAATGTTGCAACAATTGCTGATTGTGCCAGTGTGATTGAAGGAGTCAGTCGGAGCCGAAA
 TGCCTTGCTGAATGGGGACACTAAGAATTATGACTGGGATTCTGGCTACACATGTACCA
 GCTAGGAAGTGGTGCGATTGTGGTTTCACTTGGCACAACCGTACATGATTGGGTCAATACG
 GTTACTACTTTGGGATTGTGATGATCGAAGCTATAGCTACTACGTTGAGGTTTCTACCAA
 CCAGCAACAGTGGACCATGGTTGCTGACAGAACTAAAGTCTCCTGCAAGTCTTGGCAGTC
 AGTAACTTTTGAAGGCAGCCTGCCTCCTTCATCCGTATCGTTGGGACACACAACACAGC
 AAATGAGGTGTTCCACTGTGTCCACTTTGAGTGTCCAGAGCAGCAGAGCAGCCAGAAGGA
 GGAAAATAGTGAGGAATCGGGGACAGGGGACACCAGCCTGGCCGGTCAGCAGCTCGACTC
 CCATGCGCTGCGGGCGCCTAGTGGCAGCTCACTACCCTCCAGCCAGGCTCCAACCTCAGC
 CTCCCCCAACCGGCAGCACCAATAAAGGAGGCAGCGGGCCTGGTGTGACTTGG

Gene 873. >OTTHUMT00006006422 cDNA sequence

AGATAAGGAATTGTATAGGAGGAACTTCATAGTAAACATTGAACCTCTGTGCTTGTCTC
 CTTGTTGAAGTTGGGGGTTTCATGTTTATTGTTTCAAGGGAGCCTCATCAAAACCACTTTT
 AAAGCATTGAGAATCCAAATAAATACCATGGATCATAACAGGATTGGGGATAAGTCTTGAG
 GTCTCCCCGAGAAGGAGAAGTTCTTTAATTTGGTAATTTTAGGGTAATGGTTGGATGCTC
 TCTGGATTAAATGGAAACCTTCAGGGGTACTTTTAGGCAGAGTATAACCCAGTGAAGAGAG
 CATTATTATATGGTGAATGCGAGAGTCTCAGCCTGAAGCAGAAATTCTCTCCAAGACA
 CCACTGCAGAAGCATTACAATGCTACTCAAATATATCTACACTGGGCGGGCAACGCTGA
 CAGATGAGAAGGAGGAGGTGCTGCTGGACTTTTGTAGCCTGGCTCATAAATATGGATTTT
 CAGAGCTAGAGGATTCTACCTCTGAGTATCTCTGCACCATACTTAACATTGAGAATGTCT
 GCATGACTTTTGTATGTTGCCAGTCTCTACTCACTTCCCAAGTTAACTTGTATGTGCTGCA
 TGTTTATGGATAGGAATGCTCAGGAAGTCCTCTCAAGTGAAGGTTTCTCTCCCTTTCTA
 AGACAGCACTTTTAAACATCGTGTTAAGAGACTCATTTGCAGCTCCCGAAAAAGATATTT

FIGURE 1 (CONT'D)

TCCTAGCCTTATTAACTGGTGTAAAGCACAAATTCAAAGGAGAATCATGCTGAAATCATGC
AGGCTGTGCGTTTACCTCTCATGAGCCTCACAGAGCTTCTGAATGTTGTGAGGCCTTCAG
GACTGCTGTCTCCTGATGCCATCCTGGATGCCATTAAAGTGCATCTGAGAGCCGGGATA
TGGACCTCAATTATAGAGGCATGCTCATACCAGAAGAAAACATTGCAACTATGAAGTATG
GAGCCCAAGTTGTAAAGGGGGAGCTGAAATCAGCCTTATTAGATGGTGATACTCAAAATT
ATGATTTGGATCATGGATTTTCAAGGCACCCAATTGATGATGACTGCCGTTCCGGCATCG
AGATTAAGCTAGGTGAGCCATCCATTATCAATCACATACGGATACTCTTGTGGGACCGAG
ATAGCCGGTCTTACTCATACTTCATTGAAGTGTCAATGGATGAACTTGATTGGGTCAGAG
TGATAGATCATTACAATATCTGTGTCGTTCTTGGCAGAAATTATATTTTCCAGCCCGTG
TCTGCAG

Gene 874. >OTTHUMT00006006423 cDNA sequence

CAGCCATCCATTATCAATCACATACGGATACTCTTGTGGGACCGAGATAGCCGGTCTTAC
TCATACTTCATTGAAGTGTCAATGGATGAACTTGATTGGGTGAGAGTGATAGATCATTCA
CAATATCTGTGTCGTTCTTGGCAGAAATTATATTTTCCAGCCCGTGTCTGCAGGTATATT
CGAATTGTTGGGACTCACAACACAGTGAACAAGATTTTTTCAATTGTGGCTTTTGAATGT
ATGTTTACAAACAAACCTTCACTCTTGAGAAGGGGCTGATAGTTCCCATGGAGAATGTT
GCAACAATTGCTGATTGTGCCAGTGTGATTGAAGGAGTCAGTCGGAGCCGAAATGCCTTG
CTGAATGGGGACACTAAGAATTATGACTGGGATTCTGGCTACACATGTACCAGCTAGGA
AGTGGTGCGATTGTGGTTTCAATTGGCACAACCGTACATGATTGG

Gene 875. >OTTHUMT00006006432 cDNA sequence

AGTGGCTCAGAGTTAGAGGGTAGGTAGGTCTTGCATTTCCGCACAGTCAGCAAGGATATT
CAGGAACTCCCTTGCTCCCATAGCTTATATTGTATAATCACTGAGTAATGTCTATTAAT
ATGGATGGACCATGGTTTATTTAATTTGTGATTTTTTATATTCACTCTTGTTTTTTTTT
CAGTTGACAGACCTTTAGTCTCATTCCACATTGATCTGCTCTACATTCAAAGACTGAC
TTTACACCACGTATACGCGGGAATCCTCCCAAGCCCCTGGCACCGCACTCCAAATGTCC
ATCTCCAGGAACCCGCCCTTCAGTGCCTGGGGTCCCCTAAACAATGTTTCAGTCCTCGGG
CTCGGTGGGTGCATCCTTTATTGGGGAGCGCGGGGGCTGC

Gene 876. >OTTHUMT00006006434 cDNA sequence

CTAGTTAAGGCGGCACAGGGCCGAGGCGTAGTGTGGGTGACTCCTCCGTTCTTTGGGTCC
CGTCTGTCTGTGATACTGCAGCGCAGCCATGGCAGAACCGCAGCCCCCGTCCGGCGGCCTC
ACGGACGAGGCCGCCCTCAGTTGCTGCTCCGACGCGGACCCCACTACCAAGGATTTTCTA
TTGCAGCAGACCATGCTACGAGTGAAGGATCCTAAGAAGTCACTGGATTTTTATACTAGA
GTTCTTGGAATGACGCTAATCAAAAATGTGATTTTCCATTATGAAGTTTCACTCTAC
TTCTTGGCTTATGAGGATAAAAATGACATCCCTAAAGAAAAAGATGAAAAAATAGCCTGG
GCGCTCTCCAGAAAAGCTACACTTGAGCTGACACACAATTGGGGCACTGAAGATGATGAG
ACCCAGAGTTACCACAATGGCAATTGAGCCCTCGAGGATTCCGGTCATATTGGAATTGCT
GTTCTGATGTATAAGTGTCTTGTAAAAGGTTTGAAGAACTGGGAGTCAAATTTGTGAAG
AAACCTGATGATGGTAAAATGAAAGGCCTGGCATTTATTCAAGATCCTGATGGCTACTGG
ATTGAAATTTTGAATCCTAACAAAATGGCAACCTTAATGTAGTGTGTGAGAATTCTCCT
TTGAGATTTTCAAGAAAGGAAACAATGTGATTCAAGATATTTACATACCAGAAGCATCT
AGGACTGATGGATCACTGTCCCGATTCAAATATTCTTTCAGTCCATTTCCCTTCTCTATT
TCAGCTGTTCTTTTACCTAACTGTTTCAGTCACTCTGGTTTTTCAAGCAGTGCTTTATCT
CATGTCTTGAATATAGTTGTGTAACCTTTATTTTTTAGGTAATAATTAGAACAGTTCCCT
TCAGAGGCTGCATTTGCCTTCTTCTGCCACCTAAATATTACTTCCCTTCAAATCTGCCTT
TGAATCATCATTTTTTAAAAAAAATTAACATGTTTTTGTGTAGTTATCTTCTGGGGTTT
CAATTCCTCAGAAACAACCTTTTTTCAACCGGAAAGGAAAGAACTAGTGTTCTTTTTCAG
TAAAGTACAAAGTGTTTATTTTACAAAAGAGTAGGTACTCTTGAGAGCAATTCAAATCAT
GCTGACAAGGATACTGATAGAAAAAGTGATTTCTTCTTATTATAAAGTACATTTAAAGTT
CAAGGACTAACCTTATTTATTTGGGAAAGGGGAGGAGGAAGGAAATGATATGGTACCCAG
ACACTGGGCTAGGCTGCACTTTATCTCATTTAATACTCCAGCTGTGATGTGAGAAAGA
AAGCAGGCTAGGCATGTGAAATCACTTTTATGGATTATTAATGGATTAAAGAGGGCATCA
ATCAGCTCAACTCAAGATTTTATAATCATTTTTTAGTATTTAGATTGTGCCTCAAAGTTGT
AGTACCTCACAACTCCTCCTGGTTTCTGTTGTAAAAACCTTCAGTGAGTTTGACCAT
TGTGCTCTTGGCTCTTGGGCTGGAGTACCGTGGTGAGGGAGTAAACACTAGAAAGTCTTTA

FIGURE 1 (CONT'D)

GTACAAAACCTGCTCTAGGGACACCTGGTGATTCTACACAAGTGATGTTTATATTTCTCA
TAAAGAGTCTTCCCTATCCCAAGGTCTTCATGATGCCAGTAGCCATATATGATAAATTAT
GTTTCAGTGATAACTTAGTTATCAGAAATCAGCTCAGTGGTCTTCCCCGCCATGATTCA
TTTGATGAGTTTTTAAAAATCAAAGTGATTTTGAAAATCTCTAATGGCTCAGAAAATAAA
AACATCCAGTTTGTGGATGACTATATTTAGATTTCTCTAGACTCTAGTGGAAGACCTTTG
GAAAGGCCATGCCAACCGTGCTTGACTGCTAGAAGCACTTTATGTTTCCTTTTTGGGTG
AAATGGATTTATGTGAGTGCTTTAAACAAATAGCAATACTTATAGACTGAAATAAAATGA
AACTTCAAATAAGA

Gene 877. >OTTHUMT00006006435 cDNA sequence

GGCAGTTTCATCAATAGAATGGAGATGTTTCACACCTAGCCCATGGAGCTGTTTAAAGGT
TTAAATGAAATATAAAGTACTTAGCACAATAAATGAGCATTATTATTATTCTTATTATTG
TTCTTGTCAGTACCTGTATTTACTGTCTCTTTAGTCTCGTTAAATCATACTTTGGCCA
TTTGTCTTTCTATAGTTGAAAACCTTAATATTTTTGTAGCAGGGGTTAGGCCAATTATGT
AAAGTAGCATATAAACGTGGTAAGATTTCAAAGATGTTACTTGCTTTTCAGAATATCTAT
TCCCTAGGACATTGTAGCTATGTTTTCTTTCCTTTGTAGCAATTGGGGCACTGAAGATG
ATGAGACCCAGAGTTACCACAATGGCAATTGAGACCTCGAGGATTGGGTATATTGGAA
TTGCTGTTCTTGATGTATACAGTGCTTGTAAGGTTTGAAGAACTGGGAGTCAAATTTG
TGAAGAAACCTGATGATGGTAAATGAAAGGCCTGGCATTATTCAAGATCCTGATGGCT
ACTGGATTGAAATTTTGAATCCTAACAAAATGGCAACCTTAATGTAGTGCTGTGAGAATT
CTCCTTTGAGATTTCAGAAGAAAGGAAACAATGTGATTCAAGATATTTACATACCAGAAG
CATCTAGGACTGATGGATCACTGTCCCGATTCAAATTATTCTTCAGTCCATTTCCCCTTC
CTATTTTCAGCTGTTCTTTTTCACCTAACTGTTTCAGTCATTCTGGTTTTCAAGCAGTGCTT
TATCTCATGTCTTGAATATAGTTGTGTAACCTTTATTTTTTAGGTAATAATTAGAACAGT
TCCCTTCAGAGGCTGCATTTGCCTTCTTCTGCCACCTAAATATTACTTCCCTTCAAATCT
GCCTTTGAATCATCATTTTTTAAAAAAAATTAACATGTTTTTGTGTAGTTATCTTCTGG
GGTTTCAATTCCTCAGAAACAACCTTTTTTCAACCGGAAAGGAAAGAACACTAGTGTTCT
TTCAGTAAAGTACAAAGTGTTTATTTTACAAAAGAGTAGGTACTCTTGAGAGCAATTCAA
ATCATGCTGACAAGGATACTGATAGAAAAAGTGATTTCTTCTTATTATAAAGTACATTTA
AAGTTCAAGGACTAACCTTATTTATTTGGGAAAGGGAGGAGGAAGGAAATGATATGGTA
CCCAGACACTGGGCTAGGCTGCAACTTTATCTCATTTAATACTCCAGCTGTCTATGTGAG
AAAGAAAGCAGGCTAGGCATGTGAAATCACTTTTCATGGATTATTAATGGATTAAAGAGGG
CATCAATCAGCTCAACTCAAGATTTTATAATCATTTTTTAGTATTTAGATTGTGCCTCAAA
GTTGTAGTACCTCACAATACCTCCACTGGTTTTCTGTGTGTAACCTTCAGTGAGTTTG
ACCATTGTGCTCTTGGCTCTTGGGCTGGAGTACCGTGGTGAGGGAGTAAACACTAGAAGT
CTTTAGTACAAAACCTGCTCTAGGGACACCTGGTGATTCTACACAAGTGATGTTTATATT
TCTCATAAAGAGTCTTCCCTATCCCAAGGTCTTCATGATGCCAGTAGCCATATATGATAA
ATTATGTTTCAGTGATAACTTAGTTATCAGAAATCAGCTCAGTGGTCTTCCCCGCCATGAT
TCACATTTGATGAGTTTTTAAAAATCAAAGTGATTTTGAAAATCTCTAATGGCTCAGAAA
ATAAAAACATCCAGTTTGTGGATGACTATATTTAGATTTCTCTAGACTCTAGTGGAAGAC
CTTTGGAAAGGCCATGCCAACCGTGCTTGACTGCTAGAAGCACTTTATGTTTCCTTTTT
GGGTGAAATGGATTTATGTGAGTGCTTTAAACAAATAGCAATACTTATAGACTGAAATAA
AATGAACTTCAAATAAGA

Gene 878. >OTTHUMT00006006438 cDNA sequence

ATATCTGAAGCATATTTGACAAACAGAAAAAGTTAATGTAATTTTCAAAGGAAAAACGCCA
ACTTTTTTCAAAGGAAACAGCAACTGGAGAGCAGATTTGCAAACAGAAAAGCAACTC
ATGAATACAAATTGCCTGGAAAGCATTATTTACAAACAGAAGCTCTGCAAGATATACCGGA
AATTGACAGTGGCATCGAATTCAGCAAGGAAGTTTCTAAGGACACCAACAGACACCA
GCAGAAGACAGCCTTGCAATTTACAACAAACCATTTGATCCACAACAAACCATTTGATCCACA
CTTTCAAATCATTTAGGTGAAGCATAGAGAACTGGAGTGGAGACGGCTCTGGCAAATCC
AAACAATATCAAAGCACTCTCATACTGAAACCCACAGTGCTGAACCAACAGCTGAGATG
TAAAATATTTACAAAATCTTCTTCACCTCTATAGTATTTACCTGAGAGTGATGATT
TAAGTTGCAAGCACTGTATAGATGATGGGATTGAGAGATGAACACATGGAAATGGACTT
TATGTTCTCTAATGTCAAAAGAAAGAGTGATTATGAAGAAGACCCAGATTCCCACCTAT
TAATCTGAGCTTTGAATCTTTACTTTGCTGGGTCCACCGGATTTTTTTCTCCACTCAGCC

FIGURE 1 (CONT'D)

CATCGATGAGAGTGGAGGCGGCCTGCATCTTTTTCCGGCACGTATCAGCGTCATTAAGCA
AATCCTGCAGCCATAATGGGAGAATGTCTCAAA

Gene 879. >OTTHUMT00006006439 cDNA sequence

TGAAGCCCATGAGCCACTAGAAGCCACATGTTCTGCCATGTGGAGAAGAATGAGAGAGTA
CATCCTCAAATTGAGGTGTGGCATGATGATTTGGCTGCCAGAGGAGAACCTGTCTTTCC
CATCTAAAGTGGGAGGTCAAGCCAAGTAGAGGGAAACAGCAACTGGAGAGCAGATTTGCA
AACCAGAAAAGCAACTCATGAATACAAATTGCCTGGAAAGCATTATTACAACAGAAGCT
CTGCAAGATATACCGGAAATTGACAGTGGCATCGAATTCAGCAAGGAAGTTTTCTAAG
GACACCAACAGACACCAGCAGAAGACAGCCTTGCATTTACAACAAACCATTGATCCACAA
CAAACCATTGATCCACACTTTCAAATCATTGAGGTGAAGCATAGAGAACTGGAGTGGAG
ACGGCTCTGGCAAATCCAAACAATATCAAAGCACTCTCATACTGAAAACCCACAGTGCT
GAACCACAGCTGAGATGTAAATATTTCAAAAATCTTCTTACCCTCTATAGTATTTCA
CCTGAGAGTGCATGATTTAAGTTGCAAGCACTGTATAGATGATGGGATTGAGAGATGAA
CACATGGAAATGGACTTTATGTTCTCTAATGTCAAAAGAAAGAGTGATTATGAAGAAGA
CCCAGATTCCACCTATTAATCTGAGCTTTGAATTCTTTACTTTGCTGGGTCCACCGGAT
TTTTTCTCCACTCAGCCCATCGATGAGAGTGGAGGCGGCCTGCATCTTTTTCCGGCACGT
ATCAGCGTCATTAAGCAAATCCTGCAGCCATAATGGGAGAATGTCTCAAA

Gene 880. >OTTHUMT00006006440 cDNA sequence

CTTTCAAGGGCCTGTGCCTGTGGTAACTGTCTATGAGCCAGGTATATCTGAAGCATATTT
GACAACAGAAAAAGTTAATGTAATTTCAAAGGAAAAACGCCAACTTTTTTCAAAAAGGC
TGGATCCAGCTCTTCATGAATGTCTCAATGAGAAGGGTTCGGCCCAAGGAAAGGCTGTC
CTCCAAGTGTGTGCGAAAATATTTATGGTTGAGAGATGTACCTAAACAGAAAGAACTCA
TTGGTCTATCTGTGTTACAAAGAATGTGCCCATTTGCTAAGGGAAACCGAGAGATTTGTTG
GACAGGTAATCAAGAATTTTAAGGGCAATAGAAGAAGACTTACTTAAAAAATTAAAGTA
ACATACAAAAATTAATTTCTAAA

Gene 881. >OTTHUMT00006006444 cDNA sequence

GTTCCGCAGGTGGCAGCGATGGCCAGTCTGAACTCCCCGCCATGGCCGGCGCCCCCGG
CCCGCTGCGCCTTGCGCTGCTGCTGCTCGGGATGGTGGGCAGGGCCGGCCCCCGCCCCA
GGGTGCCACTGTGTCCCTCTGGGAGACGGTGCAGAAATGGCGAGAATACCGACGCCAGTG
CCAGCGCTCCCTGACTGAGGATCCACCTCCTGCCACAGACTTGTTCTGCAACCGGACCTT
CGATGAATACGCCTGTGCGCCAGATGGGGAGCCAGGCTCGTTCTGTAATGTCAGCTGCCC
CTGGTACCTGCCCTGGGCCAGCAGTGTGCCGAGGGCCACGTGTACCGGTTCTGCACAGC
TGAAGGCCTCTGGCTGCAGAAGGACAACTCCAGCCTGCCCTGGAGGGACTTGTGGAGTG
CGAGGAGTCCAAGCGAGGGGAAAGAAGCTCCCCGGAGGAGCAGCTCCTGTTCTCTACAT
CATCTACACGGTGGGCTACGCACTCTCCTTCTCTGCTCTGGTTATCGCCTCTGCGATCCT
CCTCGGCTTCAGACACCTGCACTGCACCAGGAACCTACATCCACCTGAACCTGTTTGATC
CTTCATCCTGCGAGCATTGTCCGTCTTCATCAAGGACGAGCCCTGAAGTGGATGTATAG
CACAGCCGCCCAGCAGCACCAGTGGGATGGGCTCCTCTCCTACCAGGACTCTCTGAGCTG
CCGCCTGGTGTCTTGCTCATGCAGTACTGTGTGGCGGCCAATTACTACTGGCTCTTGGT
GGAGGGCGTGACCTGTACACACTGCTGGCCTTCTCGGTCTTATCTGAGCAATGGATCTT
CAGGCTCTACGTGAGCATAGGCTGGGGTGTTCCTGCTGTTTGTGTCCCTGGGGCAT
TGTCAAGTACCTCTATGAGGACGAGGGCTGCTGGAACAGGAACCTCAACATGAACTACTG
GCTCATTATCCGGCTGCCATTCTCTTTGCCATTGGGGTGAACCTTCCTCATCTTTGTTG
GGTCATCTGCATCGTGGTATCCAACTGAAGGCCAATCTCATGTGCAAGACAGACATCAA
ATGCAGACTTGCCAAAGTCCACGCTGACACTCATCCCCCTGCTGGGGACTCATGAGGTCAT
CTTTGCCTTTGTGATGGACGAGCAGCCCCGGGGGACCCTGCGCTTCATCAAGCTGTTTAC
AGAGCTCTCCTTCACCTCCTTCAGGGGCTGATGGTGGCCATATTATACTGCTTTGTCAA
CAATGAGGTCCAGCTGGAATTTGGAAGAGCTGGGAGCGCTGGCGGCTTGAGCACTTGCA
CATCCAGAGGGACAGCAGCATGAAGCCCTCAAGTGTCCCACCAGCAGCCTGAGCAGTGG
AGCCACGGCGGGCAGCAGCATGTACACAGCCACTTGCCAGGCCTCCTGCAGCTGAGACTC
CAGCGCCTGCCCTCCCTGGGGTCTTGTGTCAGGCCGGGTGGCCAATCCAGGTGGGAGAG
ACACTCCAGGGACAAGGGAAGGAAGGGACACACACACACACACACACACACACACAC
ACACACATACATCTGCTTTCCCTCCCCAAACCCATCAGACAGGTAAATGGGCAGTGCCT
CCTGGGACCATGGACACATTTCTCCTAGGAGAAGCAGCCTCCTAATTTGATCACAGTGG

FIGURE 1 (CONT'D)

CGAGAGGAGAGGAAAAACGATCGCTGTGAAATGAGGAGGATTGCTTCTTGTGAAACCAC
 AGGCCCTTGGGGTTCCCCCAGACAGAGCCGCAAATCAACCCAGACTCAAACCTCAAGGTC
 AACGGCTTATTAGTGAAACTGGGGCTTGCAAGAGGAGGTGGTTCTGAAAGTGGCTCTTCT
 AACCTCAGCCAAACACAGAGCGGGAGTGACGGGAGCCTCCTCTGCTTGCATCACTTGGGG
 TCACCACCCTCCCCTGTCTTCTCTCAAAGGGAAGCTGTTTGTGTGTCTGGGTTGCTTATT
 TCCCTCATCTTGGCCCCCTCATCTCACTGCCAGTTTCTTTTGGGGGCTTTGTTTGGGC
 CACTGCCAGCAGCTGTTTCTGGAAATGGCTGTAGGTGGTGTGAGAAAGAATGAGCATTG
 AGACGGTGCTCGCTTCTCCTCCAGGTATTTGAGTTGTTTGGTGCCTGCCTCTGCCATGC
 CCAGAGAATCAGGGCAGGCTTGCCACCGGGGAACCCAGCCCTGGGGTATGAGCTGCCAAG
 TCTATTTTAAAGACGCTCAAGAATCCTCTGGGGTTCATCTAGGGACACGTTAGGAATGTC
 CAGACTGTGGGTGTAGATTACCTGCCACTTCCAGGAGCCCAGAGGGCCAAGAGAGACATT
 GCCTCCACCTCTCCTTGAAATACTTTATCTGTGACCACACGCTGTCTCTTGAGAATTTG
 GATACACTCTCTAGCTTTAGGGGACCATGAAGAGACTCTCTTAGGGAAACCAATAGTCCC
 CATCAGCACCATGGAGGCAGGCTCCCCCTGCCTTTGAAATTCCCCCACTTGGGAGCTTGT
 ATATACTTCACTCACTTTTCTTTATTGCTGTGAATAGTCTGTGTGCACAATGGGCAATTC
 TGACTTCTCCCATCTAGTGGAATGAGCGAAATCATGGTTGTAGTGATGTTGTTTGGGAG
 AGTGCAGTAGTAATTGATTTGACCCACTCACACTTGGAGCTAATTAAGGTTTGCCCTGCC
 TGCAGCCTCCCCCACAATAATGAACAGCAGAAAGACTGGACGGGGAAACCTATCAATCC
 TGCCCCCAGCCATGGTGAGGAAGCCCCAAGCCATGGTGACACACAGCAGCACTGCAGATA
 GCCAGACACATGGCTATCCTAGAGAGGCTGGCAAGGAGTTCGTGGCTGCAAAAGAAGTTT
 CTGGAGCAAGAGAGAGCTCGCTCTTGGGAGTCAGGACCTCCGGGGAGAGCAGAGGGTTCC
 GACGGATTCTTTTATGAGTCAGTCTCTCTCTCCCTTTTAAATGGTGGAACCTCCCCAA
 AACCTTTCCCCCAGACACATTCTCCTGTGCCCCCTCAGAGAGGCATGTGATGTGCAAGGAAA
 ATAATAGGATATAAAACACATCAAGTAGAAAATTTCTTATACTTC

Gene 882. >OTTHUMT00006006446 cDNA sequence

GGCCATCAAAATAACTAAACCATGTCAATTTGGAGCAACAAAGCCACTGCGGCCTCCATTT
 GGGCCAAGCTCTGACTGCAATGATGCCTCTGCCCCGACCCGGGCCTCGCTGTGACTGACA
 ATGCCGCTGCATCTTTTCAAGCAGTCATTGATGAGGAAGTATCTACATCCTCCTTCCCACT
 ACCAGATTTTGTCTTGGAGAAAAGCAGTTTCTGAAATAATTCTGTGACGAGCTTCTTCCA
 CATTAGGACAAAATGCTGGAAGCGGCTCAGCCCCAGGGCAGCACATCAGAGACACCATG
 GAACACAGCCATTCTCTGCCGTCGTGCTGGGACCACTTTTCTGACCAATATCACCTT
 CTTGAAGGTTCTTCTCTGGTTGGTCTGCTGGGACTGTTTGTGGAACCTGGAATTTGGCCT
 GGCATATTTTGTCTCTGCTTCTTCTATTGGATGTACGTCGGGACACGAGGCCCTGAAGA
 GAAGAAAGAGGGAGAGAAGAGCGCCTACTCTGTGTTCAATCCAGGCTGTGAAGCCATCCA
 GGGCACCTTGACTGCAGAGCAGTTGGAGCGCGAGTTACAGTTGAGACCCCTGGCAGGGAG
 ATAGGACCCAGCTGTGCTGTGATGCAGCTAACCTCTGATGTGGTCTTCTCCTCACCATTGGC
 TATGGATTTGATTTTCAAGGTGTATAGGACTAAGGGCAGCTTGCGGGTTAGCTCTGTGACTG
 CATAGTTTTTCTACCTTCTTCTCCTGATCTTTTGTGCTGCCATTTGATCTTTGATAGTTTTG
 GTGAAACTCTCTAAATAACATTCACTGTGGGTCCGACGCAATTTATAAAAATTATGTA
 CAAGAAGGGAGACCTGTTTGTTCATTTCTCATCTGTTTGGGAGATGATTTTAGAGCACT
 AGAAAGGCACTGGGGAGATTCTCAGCTTAAACATCCAGCAGTTTGAAGTATGATTAGGT
 ACATCAGGGCTGCATTGTCAATGTTCTCTTTAAGTCTTTTAAACATTTATAGCAATTTTTT
 TTTTCCCGGAGAGTTTAGGTTGCAAGTTTGGGTTTCTTGTGTTTGTGTTTGTGTTTCC
 TGCTTTAATTCTTTAATTTTCAAGTCATTACTGGTATTGAAAAATAAAATATCTTTAAAC
 ATCTCCTCTTCAGAAATAGGTCCCTCTTCATTGCCCATCACCATCTTCACTCTCCTATT
 ATTTTGGCACTACTCAGTAAAGGAAGGTAGGAAGAGACAAACGCCTAAGTGCAGGTGTGG
 GGAGGGATTTTCAAGTGGTTATTAACGGCCAGTTTCAAGCAAGAGTGTGAGTGTGTACA
 AAGGGGAGGGCTGGAAGTGTAACTCCAGACCCGTTGGCTGCTTGAGTTGTTTCTTATAT
 TCTAAAGCAGCAGTCCCTAACCTTTTGGCACCAGGGACCAGTTTGTGGAACACAGTTT
 TTCCATGGACGGGGTGGTGGTGGAGGATGAACTTCCACCTCAGATCATCAGGCATTAGA
 GTCTCATAAGGAGCACGCAACCTAGATCCCTCGCATGCGCAGTTTCAATACGGTTCTAA
 GGGCTTTAGAGTAAGCAGCTTTTTCACCTGTGGGCCTCTGGTGAGAAATCTGTAAATTG
 TGATAATCAGGCTGGATTTTAAATGCTGCTTTTCCAGTACAATGTTAGAGTTTGGGTTTCA
 TAAATTAGGCAAACTCCATTGGGTTAGGGCTTCTCTCATTCCATTTTGTGGCTAACCT

FIGURE 1 (CONT'D)

TACTGTGTTTCAGCCCTTGCTGAAAATTCTTCTGATATGTGTTGCCCTTCCTCACAGCCC
TTTGGCCATTGGGAGTTTGGCTGTCCCTCAGAGCCATCCGGTCAAGCAGATGGTCTGTTT
TATCTCACAGAAAAGTCTTTTCTTCCATGAGTTCTGTCTGAACTGAACATGTAAAAAGTA
TGGGAAACAGATGAATCCCTATTAAACATGAAGTTTTGATTGTATTTAAGAT

Gene 883. >OTTHUMT00006006447 cDNA sequence

GAGTTTCGGGCGGCGCGGAAACGGGCGGGTCTGGCGGCCCAACCCCCTGCTGCCAGTCAG
GGCGCAAAACCCCAGGAGAGAAGGCGGAAGCAGCAGCGACTCTAAAGGCAGCCCCAGGC
TGGCTAAAGCGGTTCTTGGTATGGAACCTAGGCCGCGAGTGCCCGGGCCCAGCCCGGC
CTAGTTTCAATTAAAAACAATGTCTAACCCATGCAATGAACTTTTGACTGTATGTCTCAT
TTCCAAAGGAATGAGATCATTGAGGTGGACCCAGAGAACTGAATTCAGAGAAAACTTC
CATTATTGAGAACCCAAACGCTGATTGCCAGACAAAAGGATGAGAGGAAATGCTGGACCT
CCAGTTTCTTGTTAATTGCTCTGTTTTTCCATAAGGGACTCTGCCTTAAGCTCATTTTCA
TTGACTTATCATTTCTGGGTTTGCTCTGGTGTGAAAATTCTCATTTAATTTTTTTTTCTTC
AGATTCTGCCTCTAGTTTGTAGAAAAGAAAAGTCTAATTTACAATTCATGTGAGACAATTT
TGATGGCACACTGTGGCCTGTGAGAGATTTCTTAGCATTCTATTTTTTTTAAATTATTTT
TAATTTTTTGTTTTTTTAATTGAAACAGCTTTATTGAAATAAGGTTTACATACTACAGAAT
TTATCTCTTTTAAACATACAGTTCAAAGATTTTTTAGTAAATTTATTGAGTCATGCAACCAT
CACTGCAACTTTAGAACGTCTCTATCACTCCAAGAAGACCCCTCTTGACATTAGCAGTT
ACTACCCATTTCCAACCCAGCCCCGCACAAATGTCAGTCTGCTTTCTATCTATA

Gene 884. >OTTHUMT00006006448 cDNA sequence

CGCAGGCGCACGGCGGCCGGCGCGGGCCGAGCGGAGGCAACTGCTGTGCGGCCTGCGGGC
GCGCGCTCCCTTATCGGCCAACGGACGCGAGGCGCGCGCCATGGAACAGCGGTTAGCTGA
GTTTTCGGGCGGCGCGGAAACGGGCGGGTCTGGCGGCCCAACCCCCTGCTGCCAGTCAGGG
CGCACAAACCCCAGGAGAGAAGGCGGAAGCAGCAGCGACTCTAAAGGCAGCCCCAGGCTG
GCTAAAGCGGTTCTTGGTATGGAACCTAGGCCGCGAGTGCCCGGGCCCAGCCCGGCCT
AGTTCAGGAAGCGGCTCAGCCCCAGGGCAGCACATCAGAGACACCATGGAAACAGCCAT
TCCTCTGCCGTGCTGCTGGGACCACTCTTTCTGACCAATATCACCTTCTTGAAGGTTCT
TCTCTGGTTGGTCTGCTGGGACTGTTTGTGGAACCTGGAATTTGGCCTGGCATATTTTGT
CCTGTCCTTGTCTATTGGATGTACGTGCGGCACAGAGCCCTGAAGAGAAGAAAGAGGG
AGAGAAGAGCGCCTACTCTGTGTTCAATCCAGGCTGTGAAGCCATCCAGGGCACCTGAC
TGCAGAGCAGTTGGAGCGCGAGTTACAGTTGAGACCCCTGGCAGGGAGATAGGACCCAGC
TGTGCTGTCTATGCAGCTAACCTCTGATGTGGTCTTCTCACCATTGGCTATGGATTTGAT
TTCAGGTGTATAGGACTAAGGGCAGCTTGCGGGTTAGCTCTGTGACTGCATAGTTTTTCT
ACCTTCTTTCCCTGATCTTTTGCTGCCATTTGATCTTTGATAGTTTTGGTGAACTCTCT
AAAATACATTCAGTGTGGGTCCGACGCAATTTATAAAAATTATGTAATCAAGAAGGGAGA
CCTGTTTGTCTTCTTCTCATCTGTTTGGGAGATGATTTTAGAGCACTAGAAAGGCACTG
GGGAGATTCTCAGCTTAAACATCCAGCAGTTTGAAGTATGATTAGGTACATCAGGGCTG
CATGTGCAATGTTCTCTTTAAGTCTTTTAAACATTTATAGCAATTTTTTTTTTCCCGGAGA
GTTTAGGTTGCAAGTTTTGGGTTTCTTGTGTTTTTGTGTTTCTTCTGCTTTAATTCT
TTAATTTTCAGTCATTACTGGTATTGAAAAATAAAATATCTTTAAACATCTCCTCTTCA
GAAATAGGTCCCTCTTCATTGCCCATCACCATCTTCCACTCTCCTATTATTTTGCCACTA
CTCAGTAAAGGAAGGTAGGAAGAGACAAACGCCTAAGTGACAGGTGTGGGGAGGGATTTCA
CAAGTGGTTATTAAACGGCCAGTTTCAAGCAAGAGTGTGAGTGTGTACAAAGGGGAGGGCT
GGAAGTGTAACTCCAGACCCGTTGGCTGCTTGAGTTGTTTCTTATATTCTAAAGCAGCA
GTCCCTAACCTTTTTTGGCACCCAGGGACAGTTTGTGGAACACAGTTTTTCCATGGACGG
GGTGGTGGTGGAGGATGAAACTTCCACCTCAGATCATCAGGCATTAGAGTCTCATAAGGA
GCACGCAACCTAGATCCCTCGCATGCGCAGTTTCAATAACGGTTCTAAGGGCTTTAGAGT
AAGCAGCTTTTTTCACTGTGGGCCTCTGGTGAGAAATTCTGTAAATTGTGATAATCAGGC
TGGATTTTAAATGCTGCTTTTCCAGTACAATGTTAGAGTTTGGGTTTATTAAATTTAGGCA
AACTCCCATTTGGGTTAGGGCTTCTCTCATTTCCATTTTGTGGCTAACCTTACTGTGTTTCA
GCCCTTGCTGAAAATTCTTCTGATATGTGTTGCCCTTCTCACAGCCCTTTGGCCATTGG
GAGTTTGGCTGTCCCTCAGAGCCATCCGGTCAAGCAGATGGTCTGTTCTATCTCACAGAA
AAGTCTTTTCTCCATGAGTTCTGTCTGAACTGAACATGTAAAAAGTATGGGAAACAGAT
GAATCCCTATTAAACATGAAGTTTTGATTGTATTTAAGAT

FIGURE 1 (CONT'D)

Gene 885. >OTTHUMT00006006452 cDNA sequence

GACAAGGAGTGGTGCTCCATCACCAAGTCACCTTGCCAGGTCAAGGACATGAAGATCAAA
TCCCTGAAGGTCTATCTCTTCTCTCTGTCCATCAAGGAGTTTGAGGTCACTGACTTCCTC
CTGGGGGTGCCCTCAAGGACAAGGTTCTGAAGCTCATGTTTGTGCAAAAGCAGCCCAAG
GCTGGCCGGCGGATCAGGTTCAAAGTGATTGTACCATAAGGGACTGCAATGATAACGTC
AGTCTGGGTGTTGAGTGGCCCAAGGAGTTACTCATTGCTGTCTGCAGGACCAACATCCTC
TCCATCATCCTGGTGTAGGGTGACTACCAGGGGACAAGGTCAGCAAACCCACACAGTGC
TCTGCATGGTGACACAATGCTGC

Gene 886. >OTTHUMT00006006454 cDNA sequence

ATGAACACGACTGCTTTACATTTGGCCTGTGCCAATGGCCATGTGGAAGTGGTCACTCTC
CAGGTGAACTGAAAGTGCCAGACTGACATTGGTGACAAATGAAACAGGATGCCTTTGATG
AAGGCTGTACATTGCCAAGAAGAGATTTGTGTATCATTCTGCTAGAATGTGGCACCAAC
CCAGATCTTATGGATGTCTATAGCAACAATGCACTACACTATGCTGTGTATAATGAGAAT
ACACTACTGGCAGAAAACTGCCCTCACACCATGTGAATACTGAAGTGCTGAACAAGGAT
ACTGAAGTGCTGAACAAGGATGCAACACACCACTTTTACTTGCTATAGTTTGCAAAACA
CAGCAAAAGGTGGAATTTTGTAGTGAAGAAAACAAGCAAATGTACATGCTGTTGATAGGTTGA
AAAGAACAGCTCTCATGCCTGTTGTACATTATGGCTTGTGAGGTATAGTTAGCATTCTTC
TTCAACAAAATATTGTCTTTACTCAAGAGTATGTATGAACAGACTGCAGATTATGCTATT
TCTGGTGGTCTGACAAGCACTACAACAAATTTTGAACATTAAAAAAGATACTTG
AAAATGGTCTTCAAAATGACAACCCAGAAGAAGCATCCAAGAAGAATGCAAGTTTGAAAA
CAGGAGGAGCAAGTGCAAAAGATTCTGGGAGTTCTGAAGCATCTGCATTGATATTTAAA
AAAAAAGTGTGTGTTGACTCATGGCCTAAACCAGATGATGAAGACTTGACTTTTACTACC
AAGCAGTGTATCCTGAGAGTGTCTTCAAAGTCTTTACTTGACCTTCATATAAAAAAGGA
AAAAATATATAGTAAATGGAAGGGGAGAAGGGCTCCTGAAAAACATCCTTCCCTAAAGC
CTACCATGGAAATGAAAGATTCTGTTGTGAAGAAAGCAATAGAAAGGAAGAACGAACAAA
CATCCAAAGCAGAACAAGAAGTACAAGTGACATCAGAGGAAGAACAGGAAAAGCTTGAAA
GTGAAAATAAACAGCCACAGGTTGAAGAAGCTAGAAAAGAACGAAAGTTAAAAA
AAGTATCAAAAAACGTATATGATAGTACATCTGCTGACGATGATGATAAATTAATTCAA
CAAAGAAAGAGTGGAAAACTTACCATCAGCGATTTCTAGGAAGGAGAACAAAGAGTAT
GCTAGGCCTGCAAGAAAAATGTCAAATGAAAAGAAAAAGGTCAAAAAGCAAACCTCATTTA
GAGATGAACCTGATGACTTAACTCGGCCCTCTGAAACAGCTTCAGAGGATCATGAGAAAC
CTTACCCTCATTTGAAGAAGTTTATGATGCTCATTAAAGCAATATGGAATGGATTGTAATG
ATTCTCGTATCCTAATGGAAGTCCAGAATGCATTTCTTTCATGTGAAAAGTCACTGGACC
TTAAAAAATTATCTGTGAACAACTTACACTAGACAATAAGAAATATGAAAAGTGAAGTT
TAGTGTACTGAAGGAGCTATCCAAAACACAAGAAACGAAGTCAAGTTCAATATCAAAAA
GTAGAATGGAACAGGAACTCTACAGTTTGCAGCTTAGAAGAAGATGAGAAGAAATGCTA
ATATGTTATATGAAAAAATTAGGGAAGAGTTAGAAAGGAAAGTGGAGCAACATAGGAAAG
AAGTTGAAGTAAAGAACAGCTTAAACTGACTATCGGATCACTAGAAATAGAATTGAAGG
CTTGAAGAAATACTTTAAGAAAAAAGATCTGATGCATGAAAATTGCTTGTGTAAGAG
AGATATTGCCTTTATTGTGTATGTAAGTATACACAATAAAAAATAGGAACCTCGAAAGGG
AAAAAGGACATTGAAATTGTTAAAGAAATGAATGATGACCTTCAAGAGACTATAAACTG
AATGGAACAAATTAACAAAAACAGTATCCAGTATGGTCAACAGCTTAACGACCTCAAA
ACTGAGAATACAATGCTCAAGTCTAACTGGGAGAAAGGAAATCAAAAACAGGAAAGACTG
GAAGCTGAAGTTGAGTCATTCCATGCTAGACTGGCTGCTGCTATAAGTGAGTGTGATCAA
AGTGTGAAAACAAAAGAGACCTAGAACTTGCTTTACAGAGAGCACAAAGACGTTTCTTTA
CAAGAAAGAAATGAGTTCTGATATTTCTGAACTAAAAGATAATAATGAGTTTTTAACTG
AGCAACTTTCCGAAGCTCGAATTCAATACCCTAAAAAGTAACTCCATGACACAAGAAAT
TCTCTCAGAGAAAAGGTTTTTGGTTTTATAAAGTGTAACAAAGGACCTAAGCCAAGTAAAT
CCTTTGGAAAGTGGGACTACGTAGAGGAGAGAATATCTCAACTACAACATGAAAATCTGT
TGCTTCAACAACTAGATGGTGCTCATAAGAAAGGGGATAATGAACAAAAGGTAATTAATA
TCCAAGGATGCTGTCTTGAGAGTGAAAAGGAAGGTCTTCTGCTAGAAGGGAAAAATAAGG
AATTAATCAATGAATGCAATCATTTAAAAGACTGTTTCAGTATGAAAAAGAGAAAGCAGA
AGGAGAAGTAAGTATCAAAAAGATAAATATTTTCAAACCTCCAGAAGGAAA

Gene 887. >OTTHUMT00006006456 cDNA sequence

FIGURE 1 (CONT'D)

AGCGACGCGTGGAGAAGCGGCCACGTGTCTGCCAGAGTCAAGTCCTGTGTTCTTCCCG
 CTCCTTACGCATCCGCGGTCCAGGGCGCCCTTTTCAGCCCGCTGGTGTTCGCCACCCCG
 GGCCGCGTGAAGTGGGGCCCCACGCAGCTCCCCGACTCCGTGGGCCAACTTGGCCAAGCA
 ACTCTGTCCGGGGAGCGGTGCTTTCGGGGGGTGAAGTACCGGGCACTGCGCATGCGGAGCT
 CCAAATTCAAACAGCTGTTTTTCAGAGGCTGGAGGGCGGGCGGACTGGTAGCAGCTGGGGC
 TAGGAGAGGCTTTCTCTAGGAGGGCGCCGCTCGGGAGCCATGGTGGACCGGGCCCTCTG
 CTCACCTCGGCCATCATCTTCTACCTGGCCATCGGGGCGGCGATCTTGAAGTGTGGAG
 GAGCCACACTGGAAGGAGGCCAAGAAAACTACTACACACAGAAGCTGCATCTGCTCAAG
 GAGTTCCCGTGCCTGGGTGAGGAGGGCTGGACAAGATCCTAGAGGTGGTATCTGATGCT
 GCAGGACAGGGTGTGGCCATCACAGGGAACAGACCTTCAACAACTGGAAGTGGCCCAAT
 GCAATGATTTTTGTCAGCGACCGTCATTACCACCATTTGGATATGGCAATGTGGCTCCCAAG
 ACCCCGCGCGGTGCGCTCTTCTGTGTTTTCTATGGTCTCTTCGGGGTGCCGCTCTGCCTG
 ACGTGGATCAGTGCCCTGGGCAAGTTCTTCGGGGGACGTGCCAAGAGACTAGGGCAGTTC
 CTTACCAAGAGAGGTGTGAGTCTGCGGAAGGCGCAGATCACGTGCACAGTCATCTTCATC
 GTGTGGGGCGTCTAGTCCACCTGGTGTATCCACCTTCGTATTATGGTGAAGTGGGGG
 TGGAACTACATCGAGGGCCTCTACTACTCCTTCATCACCATCTCCACCATCGGCTTCGGT
 GACTTTGTGGCCGGTGTGAACCCAGCGCCAACTACCACGCCCTGTACCGCTACTTCGTG
 GAGCTCTGGATCTACTTGGGGCTGGCCTGGCTGTCCCTTTTTGTCAACTGGAAGGTGAGC
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 GAGAGCTCCCCACACTCCCGGAAGGCCCTGCAGGTGAAGGGGAGCACAGCCTCCAAGGAC
 GTCAACATCTTCAGCTTTCTTTCCAAGAAGGAAGAGACCTACAACGACCTCATCAAGCAG
 ATCGGGAAGAAGGCCATGAAGACAAGCGGGGGTGGGGGAGACGGGCCCCGGGCCAGGGCTG
 GGGCCTCAAGGCGGTGGGCTCCAGCACTGCCCCCTTCCTGGTGGCCCTGGTAGTCTAC
 TCCAAGAACC GGGTGCCACCTTGAAGAGGTGTACAGACACTGAGGAGCAAAGGCCAC
 GTATCAAGGTCCCAGATGAGGAGGCTGTGGCACGGGCCCCCTGAAGACAGCTCCCCTGCC
 CCGAGGTGTTTCATGAACCAGCTGGACCGCATCAGCGAGGAATGCGAGCCATGGGACGCC
 CAGGACTACCACCCACTCATCTTCAGGACGCCAGCATCACCTTCGTGAACACGGAGGCT
 GGCTCTCAGACGAGGAGACCTCCAAGTCTCTGCTAGAGGACAACTTGGCAGGGGAGGAG
 AGCCCCCAGCAGGGGGCTGAAGCCAAGGCGCCCCCTGAACATGGGCGAGTTCCCCTCCTCC
 TCCGAGTCCACCTTCACCAGCACTGAGTCTGAGCTCTCTGTGCCTTACGAACAGCTGATG
 AATGAGTACAACAAGGCTAACAGCCCCAAGGGCACATGAGGCAGGGCCGGCTCCCCACCC
 CACCTTTGATGGCCTCTTCCCCCTCACCTAGGGTGTCCCGAGATGACCGGGACGCCTG
 GCCCCCTGGTGGGGGGGCGCCTCGGAAGTGGGAGTGGGGGGCCAGGGGCCCTTCTAACCT
 TCCATCATCTCAGCTAGATGTATGCCCCGGACAGGGCCTCTGTTCTCAGCTGAACCAT
 ACCCTGGCTGTGGGGGCATCTGTCTGAGCTTGGCTGGTGTATCTCACAATGCAAAGACA
 TGCTGGCTGGCGGGACAGGTGGGCAGGACTGACCTGAGGAGGCCTTGCTGCAGGGTCT
 TTGTCTCACCATTTTGGTGGAGTATCACACGGTTCTCTGAGGTCTGGGGCCTCAGCTGTTT
 AAGTTTACCGGTATTACTGAGCTCGGCATTTGGAGAGGGAGCTCTGAAGTGTCTGGGGAG
 GTACCGCTGTGCGTGGGGTCAAGTGTTCCTGATACCACAGCAGGAGCAGGGCCCCGCCA
 TCCCAGCTGTGGGCCTGCCGGTCAGGTGCGGCACCTACTACAAACCGTAGTGGGGTGGAG
 GCTGCTGGAGGTGGGAGTGAAGAGATGAGGGCAGGGTCTCAAACAGTCTGACTCACAGG
 GCCTGGAAACAAGTCTATGTGGGCCTGGGGCCTGGGGTCTCATCTCCTTGTGGTCT
 ACTCAGGCCCAGCCAGAGCTGTGTTCCCTGTCTCAGGTCAAGCAGTGGCAGACGCAAGG
 CTTTCTGTGGGCCCCCAAGTGGTAGGAGGGAGAGTAGCAGAGCATGGGTACTGGAAGCC
 GGGACTGCTAGGGCTGGTGGCCAGGGAGCTGCAAGAGTGAAGCTCAGCTCTGGCTGGTTT
 TGCCCTTACCCCTCCTGCCCGCCTGAGAACTGCACACCCTGCCCCGCTGGCCCCAGGACCT
 GCACTCCCAATCCTGCTGTCTTCTCCTTCCCTGTGCCCTGAACAAGGACCTCACTGCCCCG
 CCTTCCCCCTCCACCCAGCCCCCTTGGGCCAGGCAGGGTGAAGCCAAATTGCTCTTGGCCC
 ACAAATGGGTGATGGTCAGATATGTGAATCAAGCTCCTTTCTCTAGCTAGTGTGTTGATGT
 GCACGTGTGTGTGCACAGTGCCTGTGTGCACACGCACACCTGTGCACTCGTGTGTGTTA
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 TGGTGAAGGGTGGGCAGAACTTGTGCTACTAGAGTTCTTGGGTTCTCCATGATGTTTAC
 CCTGGGGCTGGCCCACTGTGTCTGAATGTTTTTGTATTTTTTGTATTTTTTAAAC
 AAAGTGTGTTTTTATATACCTGGAATCTGTTGTTGGCTTCAGAGCCAGTGGTTAAAGAG